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MICRO PHOTO DIVISION
BELL & HOWELL COMPANY

INDEX OF PATENTS

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¹Includes 6 patents withdrawn.

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Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Erratum

Previous Edition

In the "Index of Patents," vol. 1960, page 267, second column, line 2, under the heading "Federal-Mogul-Bower Bearings, Inc.: See—" for "Christensen, Paul M. 2,934,623." read *Christensen, Dan A. 2,926,025.*; same page 267, second column, line 5, under the heading "Federal-Mogul-Bower Bearings, Inc.: See—" strike out "Martin, Paul S. 2,923,795." and insert the same between lines 15 and 16, under the heading "Federal Pacific Electric Co.: See—" ; same page 267, second column, line 7, under the heading "Federal-Mogul-Bower Bearings, Inc.: See—" strike out "Norden, Alexander R. 2,923,788." and insert the same between lines 16 and 17, under the heading "Federal Pacific Electric Co.: See".

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- Adams, Charles B., and E. A. Silver, to Sperry Rand Corp. Press wheel. 3,181,622, 5-4-65, Cl. 172-519.
- Adams, Charles H.: See—Starrett, Delbert, and Adams. 3,201,976.
- Adams, Charles H., to Monsanto Co. Arresting systems. 3,191,890, 6-29-65, Cl. 244-110.
- Adams, Charles J., to General Electric Co. Switch actuator. 3,175,423, 3-30-65, Cl. 74-568.
- Adams, Charles Q., to United States of America, Navy. Magnetic field detector with a two-core flux gate magnetometer for a D.C. permeameter. 3,209,246, 9-28-65, Cl. 324-43.
- Adams, Charles W.: See—Taylor, Norman H., Pugh, and Adams. 3,205,344.
- Adams, Chester E., to Standard Oil Co. Tris-halomethyl trimethyl benzenes. 3,168,580, 2-2-65, Cl. 260-651.
- Adams, Clarence W., to Beckman Instruments, Inc. Fluid sampling device. 3,201,994, 8-24-65, Cl. 72-421.5.
- Adams, Clark E.: See—Kimberlin, Charles N., Jr., Ellert, Adams, and Hamner. 3,203,892.
- Adams, Clark E., and W. F. Arey, Jr., to Esso Research and Engineering Co. Liquid diffusion separation process. 3,193,582, 7-6-65, Cl. 260-593.
- Adams, Clifford B.: See—Holstein, Alvin W., Adams, and Visos. 3,167,215.
- Adams, Clifford B., to National Rejectors, Inc. Money-actuating devices. 3,188,531, 6-1-65, Cl. 194-10.
- Adams, Dolor N.: See—Sorkin, Jack L., and Adams. 3,169,065.
- Adams, Dolphus H. Gun rest. 3,191,826, 6-29-65, Cl. 224-5.
- Adams, Donald R. Abrasives. 3,168,387, 2-2-65, Cl. 51-206.
- Adams, Donald R. Process of forming manicure implements. 3,197,294, 7-27-65, Cl. 51-293.
- Adams, Dustin S., to E. I. du Pont de Nemours and Co. Modular synthetic organic filaments. 3,185,613, 5-25-65, Cl. 161-179.
- Adams, Earl E., to Raytheon Co. Pulse compression radar system. 3,176,296, 3-30-65, Cl. 343-17.2.
- Adams Electronics, Inc.: See—Adams, Stanley A., and Hubert. 3,101,131.
- Adams, Elmer L., deceased, by W. J. Adams, executrix, to Owens-Illinois Glass Co. Method for making plastic articles. 3,170,970, 2-23-65, Cl. 264-94.
- Adams, Ernest P., and H. A. Nussbaum, to Crown Zellerbach Corp. Carton construction and method of closing. 3,165,233, 1-12-65, Cl. 229-33.
- Adams, Floyd S., to Crosby-Frislan Fur Co. Method for making fur-covered brushes. 3,167,356, 1-26-65, Cl. 300-21.
- Adams, Francis V.: See—Rowley, Russell A., Adams, Clapper, and Hamburg. 3,223,971.
- Adams, George C., to Rollform, Inc. Acoustical ceiling construction. 3,164,230, 1-5-65, Cl. 189-85.
- Adams, George C. Metal pan acoustical ceiling. 3,204,383, 9-7-65, Cl. 52-404.
- Adams, George W.: See—McDonald, Michael F., Sr., Adams, and Jolley. 3,180,905.
- Adams, Harold A., and J. K. Coates, to Electro-Smog Corp. Crankcase ventilation system control device. 3,181,833, 5-4-65, Cl. 251-121.
- Adams, Harold E., to The Firestone Tire & Rubber Co. Copolymerization of olefins with a VOCl₃-AlR₃-Li catalyst. 3,205,205, 9-7-65, Cl. 260-85.2.
- Adams, Harold E., to The Nash Engineering Co. Centrifugal pump with gas separation means. 3,213,794, 10-26-65, Cl. 132-5.
- Adams, Harold E., to Nash Engineering Co. Liquid ring and centrifugal series pumps for varying density fluids. 3,221,659, 12-7-65, Cl. 103-5.
- Adams, Harold W., to Reynolds Metals Co. Vibrationless cable construction. 3,204,021, 8-31-65, Cl. 174-42.
- Adams, Harold W., and K. Hirahara, to FMC Corp. Pear peeling method. 3,211,204, 10-12-65, Cl. 146-234.
- Adams, Harry H., and M. E. Lawrence, to Parker-Hannifin Corp. Press. 3,190,214, 6-22-65, Cl. 100-214.
- Adams, Henry J., to The Commonwealth Industrial Gases Ltd. Resuscitator. 3,196,866, 7-27-65, Cl. 128-29.
- Adams, Herbert L., III, to General Motors Corp. Gearless differential. 3,191,458, 6-29-65, Cl. 74-650.
- Adams, Jack, deceased; J. A. Gruschus, executrix. Tractor trailer dumping hopper vehicle. 3,198,579, 8-3-65, Cl. 298-35.
- Adams, Jack J., to The Dow Chemical Co. Method for the preparation of latexes of synthetic resins and for the control of the viscosity of such latexes. 3,177,172, 4-6-65, Cl. 260-29.6.
- Adams, James, Jr., to Raybestos-Manhattan, Inc. Rubber faced belt with fiber traction surface. 3,190,137, 6-22-65, Cl. 74-233.
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- Adams, James E., to The Bishop and Babcock Corp. Transfer and tapping mechanism for sheet metal fasteners. 3,179,966, 4-27-65, Cl. 10-130.
- Adams, James E., to The Bishop and Babcock Corp. Sheet metal cage nut. 3,189,076, 6-15-65, Cl. 151-41.75.
- Adams, James E., to The Bishop and Babcock Corp. Molding trim attaching clip. 3,189,143, 6-15-65, Cl. 189-78.
- Adams, James E., to The Bishop and Babcock Corp. Body mounting fastener for automobiles. 3,193,237, 7-6-65, Cl. 248-358.
- Adams, James E., to The Bishop and Babcock Corp. Sheet metal hinge clip. 3,204,288, 9-7-65, Cl. 16-172.
- Adams, James E., to The Bishop and Babcock Corp. Front end mounting cage nut fastener. 3,217,772, 11-16-65, Cl. 151-41.75.
- Adams, James E., to The Bishop and Babcock Corp. Vehicle body vibration insulating mount. 3,218,101, 11-16-65, Cl. 296-35.
- Adams, James W., to American Can Co. Process for making high flexural strength paper. 3,180,787, 4-27-65, Cl. 162-163.

- Adams, James W., and H. W. Hofflezer, to Tee-Pak, Inc. Preparation of hydrolyzed polymer-deposited on cellulosic material and the resulting product. 3,194,727, 7-13-65, Cl. 162-168.
- Adams, John D. Metering liquid dispensing device. 3,178,081, 4-13-65, Cl. 222-456.
- Adams, John F. E., K. G. Gerber, and W. A. Holmes-Walker, to Imperial Chemical Industries Ltd. Process for the production of biaxially oriented polyethylene terephthalate film. 3,177,277, 4-6-65, Cl. 264-210.
- Adams, John H. Adjustable size ratchet handle pipe cutter. 3,163,932, 1-5-65, Cl. 30-101.
- Adams, John J., to The Metal Box Co. Ltd. Method of manufacturing containers. 3,195,427, 7-20-65, Cl. 93-94.
- Adams, John R., Jr.: See—Smart, Charles L., Salvin, and Adams. 3,206,420.
- Adams, Kenneth D., J. A. Herr, and I. G. Schwartzberg, to The Singer Co. Automatically actuated sewing machines. 3,224,393, 12-21-65, Cl. 112-2.
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- Adams, Leon M.: See—Kenton, Joseph R., and Adams. 3,168,590.
- Adams, Lester E., to General Motors Corp. Wiring connector. 3,164,433, 1-5-65, Cl. 339-258.
- Adams, Lester R., and B. J. Greenblatt, to International Business Machines Corp. Fluid control apparatus. 3,168,897, 2-9-65, Cl. 137-81.5.
- Adams, Lester R., A. F. Collins, E. B. Elcheberger, and M. J. Kelly, to International Business Machines Corp. Address modification matrices. 3,226,686, 12-28-65, Cl. 340-172.5.
- Adams, Loyd: See—Paul, Lowell A., Adams, and McDonald. 3,176,861.
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- Adams, Madison B., Jr. Cutting apparatus. 3,164,144, 1-5-65, Cl. 125-13.
- Adams-Mills Corp.: See—Rearwin, Earle W. 3,181,241.
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- Adams, Paul R., and M. Rogoff, to International Telephone and Telegraph Corp. Transmission systems. 3,202,764, 8-24-65, Cl. 179-15.
- Adams, Paul R., J. A. Fingerett, and R. von Buelow, to International Telephone and Telegraph Corp. Cumulative digital computing systems. 3,204,088, 8-31-65, Cl. 235-152.
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- Adams, Robert B., to Moore Products Co. Transducers. 3,173,437, 3-16-65, Cl. 137-82.
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- Adams, Robert T., to International Telephone and Telegraph Corp. Demodulator system for angularly modulated signals having improved noise immunity. 3,195,059, 7-13-65, Cl. 329-122.
- Adams, Robert T., and B. M. Mindes, to International Telephone and Telegraph Corp. Logical switching system for input and output signals characterized by various stable frequencies. 3,176,233, 3-30-65, Cl. 328-92.
- Adams, Robert T., and B. M. Mindes, to International Telephone and Telegraph Corp. Frequency stabilized oscillator. 3,176,245, 3-30-65, Cl. 331-175.
- Adams, Robert T., and K. J. Staller, to International Telephone and Telegraph Corp. Time diversity communication system. 3,195,048, 7-13-65, Cl. 325-56.
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- Adams, Robert W.: See—Holkesvick, Edgar B., Hudnall, and Adams. 3,197,204.
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- Adams, Rowland K., and J. R. Cooper, to E. I. du Pont de Nemours and Co. Process of reacting a polyisocyanate with a compound having active hydrogen using a tertiary amine N-oxide catalyst. 3,173,896, 3-16-65, Cl. 260-75.
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- Adams, Russell. Bilge pump. 3,191,538, 6-29-65, Cl. 103-70.
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- Adams, Samuel T., and R. P. Kessler; said Kessler and heirs of said S. T. Adams, deceased, assors, to West Virginia Pulp and Paper Co. Bag closer and sealer. 3,200,558, 8-17-65, Cl. 53-76.
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- Adams, Ul. Fishing device. 3,197,909, 8-3-65, Cl. 43-42.37.
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- Adams, William E., to H. H. Robertson Co. Cable operating means for ridge ventilator. 3,213,776, 10-26-65, Cl. 98-42.
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- Adamski, Joseph, to Dura Corp. Convertible top mechanism. 3,180,675, 4-27-65, Cl. 296-117.
- Adamski, Richard R. Magnetically actuated toy vehicle and roadbed with coll. 3,206,891, 9-21-65, Cl. 46-235.
- Adamski, Tadeusz W., and B. Kallnowski. Method of and apparatus for grinding hard materials. 3,226,042, 12-28-65, Cl. 241-30.
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- Obarski, Richard W. 3,206,973.
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- Adelaar, Hans H., F. Clemens, and R. De Smedt, to International Standard Electric Corp. Signalling system for substation apparatus. 3,164,680, 1-5-65, Cl. 179-84.
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- Adell, Robert. 3,212,661.
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- Maker, James H., and Adgate. 3,201,273.
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- Adler, Arthur. Methods for improving pressed properties and characteristics of sintered powder metal compacts. 3,223,523, 12-14-65, Cl. 75-212.
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- Adler, Franklin P., to Pullman Inc. Door post locking means for open side railway cars or the like. 3,165,076, 1-12-65, Cl. 105-378.
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Aleixo, Antonio N., and N. C. Ganoudis, to E. I. du Pont de Nemours and Co. Elastic fabric and process for preparing same. 3,169,553, 2-16-65, Cl. 139-421.
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Aler, Richard P., to A.G.S. Development & Sales Corp. Wheel traction aid device. 3,198,233, 8-3-65, Cl. 152-218.
Alesbury, George, to Vickers-Armstrongs (Aircraft) Ltd. Aircraft undercarriages. 3,171,619, 3-2-65, Cl. 244-102.
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Alexander, Arthur H. Segment type locating pin. 3,196,549, 7-27-65, Cl. 33-174.
Alexander, Ben, and G. A. Deschamps, to International Telephone and Telegraph Corp. Velocity and position computer. 3,194,948, 7-13-65, Cl. 235-151.
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Alexander, Charles F., Jr., to Klekhafer Corp. Water-coolant supply means for an outboard propulsion unit. 3,164,121, 1-5-65, Cl. 115-17.
Alexander, Clair B., Jr., and G. S. Mahan, to International Basic Economy Corp. Mechanical positioning device. 3,169,619, 2-16-65, Cl. 192-143.
Alexander, Claude C., to The West Co. Container closure. 3,199,703, 8-10-65, Cl. 215-42.
Alexander, David O., 25% to S. B. Wizer. Pressurized membrane container. 3,193,853, 7-13-65, Cl. 9-8.
Alexander, Donald C., and H. L. Pibus, to International Telephone and Telegraph Corp. Insulated electrical cable. 3,176,065, 3-30-65, Cl. 174-120.
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Alexander, Donald F., to General Motors Corp. Overenergization control apparatus for a cooking unit. 3,211,894, 10-12-65, Cl. 219-495.
Alexander, Donald F., to General Motors Corp. Electric heating hot plate. 3,219,800, 11-23-65, Cl. 219-446.
Alexander, Ezra M.: See—
Searight, Charles E., and Alexander. 3,198,641.
Alexander, Ezra M., and D. Labino, to Cataphote Corp. High index glass composition. 3,193,401, 7-6-65, Cl. 106-54.
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Alexander, Guy B., R. K. Iler, and S. F. West, to E. I. du Pont de Nemours and Co. Composition containing a dispersion-hardening phase and a precipitation-hardening phase and process for producing the same. 3,180,727, 4-27-65, Cl. 75-134.
Alexander, Guy B., S. F. West, and P. C. Yates, to E. I. du Pont de Nemours and Co. Powder metal compositions containing dispersed refractory oxide. 3,218,155, 11-16-65, Cl. 29-182.5.
Alexander, Jack P., to The Samuel R. Noble Foundation Inc. Soil sampler. 3,224,512, 12-21-65, Cl. 173-19.
Alexander, James H., G. Barbieri, and J. Diz, to International Business Machines Corp. Radar display system. 3,212,088, 10-12-65, Cl. 343-16.
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Alexander, John D., J. N. Dew, and W. L. Martin, to Continental Oil Co. Low temperature in-situ combustion. 3,209,825, 10-5-65, Cl. 166-11.
Alexander, John J., to Standard Oil Co. Petroleum wax polyvinylstearate compositions. 3,183,199, 5-11-65, Cl. 260-28.5.
Alexander, John O., J. Hargreaves, and S. C. Brown, to Wickman Wimet Ltd. Tool holders for use with detachable inserts. 3,173,191, 3-16-65, Cl. 29-96.
Alexander, L. Bruce, and R. A. Andrews, to Brown Citrus Machinery Corp. Apparatus for extracting juice from citrus fruit. 3,218,962, 11-23-65, Cl. 100-117.
Alexander, Laurence R., to Leesona Corp. Infrared radiation detector cell utilizing ionized gas. 3,185,848, 5-25-65, Cl. 250-83.6.
Alexander, Laurence R., and S. Wallace, to Leesona Corp. Infrared vapor monitoring system with means to control the infrared emission from the source. 3,201,587, 8-17-65, Cl. 250-43.5.
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Alexander, Warren A., and R. N. Hart, to Esso Production Research Co. Seismic method of earth exploration. 3,208,549, 9-28-65, Cl. 181-3.
Alexander, Warren A., and J. T. Baker, to Esso Production Research Co. Light guide system for seismic corrections. 3,215,031, 11-2-65, Cl. 88-1.
Alexander, Warren A., and E. R. McCarter, to Esso Production Research Co. Electronic circuit for arithmetic operations. 3,215,824, 11-2-65, Cl. 235-193.
Alexander, William J. Collapsible hand truck. 3,177,000, 4-6-65, Cl. 280-36.
Alexander, William O. Pressure injector. 3,225,554, 12-28-65, Cl. 62-77.
Alexandrescu, Alexander M. Hydraulic coupling. 3,167,917, 2-2-65, Cl. 60-54.
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Alexandrou, George A. Opening means for envelopes. 3,194,483, 7-13-65, Cl. 229-86.
Alexeff, Alexander V., to Industrial Ovens, Inc. Heating means for strip material. 3,166,304, 1-19-65, Cl. 263-3.
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Alexeff, Igor. Measurement of ultra high vacua by electron bombardment and vacuum ultra violet radiation measurement. 3,174,036, 3-16-65, Cl. 250-43.5.
Alexoff, Igor, and R. Neldigh, to United States of America. Atomic Energy Commission. Production of completely ionized plasma. 3,222,559, 12-7-65, Cl. 313-61.
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Alfano, Michael P. Ladder having removable rungs. 3,190,393, 6-22-65, Cl. 182-194.
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Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Twin section hydraulic control either in tandem or in parallel for single or multi section compressed air. 3,181,298, 5-4-65, Cl. 60-54.5.

Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Device for proportionating the pneumatic braking of motor vehicles to the load transported by the vehicle. 3,186,771, 6-1-65, Cl. 303-22.
Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Cleaning device for piston port means in a pressure regulator. 3,203,320, 8-31-65, Cl. 92-87.
Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Supply and exhaust valve with piston type inlet. 3,203,449, 8-31-65, Cl. 137-627.5.
Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Braking arrangement with a pair of subsequently operated brake initiating means. 3,205,021, 9-7-65, Cl. 303-53.
Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Device for selectively deactivating a tractor pneumatic suspension. 3,214,188, 10-26-65, Cl. 280-124.
Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Brake pedal with pressure opposing regulator. 3,216,771, 11-9-65, Cl. 303-56.
Alfieri, Giuseppe, to Fabbbrica Italiana Magneti Marelli S.p.A. Three-way servo deviator for pressurized fluid systems and more specifically for pneumatic braking systems. 3,224,455, 12-21-65, Cl. 137-113.
Alfieri, Giuseppe, and R. Morlondo, to Fabbbrica Italiana Magneti Marelli S.p.A. Multiple control valve having its individual valves set for opening at different predetermined pressures. 3,179,474, 4-20-65, Cl. 303-52.
Alfieri, Giuseppe, and R. Morlondo, to Fabbbrica Italiana Magneti Marelli S.p.A. Automatic friction clutch control of motor vehicles. 3,204,730, 9-7-65, Cl. 192-108.
Alfieri, Giuseppe, and R. Morlondo, to Fabbbrica Italiana Magneti Marelli S.p.A. Device for controlling the actuation of levers for a pneumatic vehicle suspension. 3,204,972, 9-7-65, Cl. 280-6.1.
Alfieri, Giuseppe, and R. Morlondo, to Fabbbrica Italiana Magneti Marelli S.p.A. Servo autodistributor for trailer vehicles equipped with pneumatic brake system. 3,210,132, 10-5-65, Cl. 303-40.
Alfieri, Giuseppe, and R. Morlondo, to Fabbbrica Italiana Magneti Marelli S.p.A. Servo-control for fluid pressure braking apparatus of motor vehicles with trailer. 3,216,770, 11-9-65, Cl. 303-6.
Alfille, Lucien, J. Ropers, and C. Gewiss, to Commissariat a l'Energie Atomique. Guide tubes for nuclear reactors. 3,197,879, 7-27-65, Cl. 176-43.
Alford, Andrew. Pulse stretcher utilizing delay furnishing polarity inverting means and means for combining input pulse with same delayed and inverted. 3,184,684, 5-18-65, Cl. 328-58.
Alford, Andrew. Selective transmission of wave energy. 3,208,067, 9-21-65, Cl. 343-100.
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Alger, John R. M., and C. V. Hays, to General Electric Co. Clothes washing machines. 3,216,227, 11-9-65, Cl. 68-23.
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Alguire, Ivan M., deceased; A. P. and J. I. Alguire, executors. Evaporative cooler. 3,188,061, 6-8-65, Cl. 261-24.
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Allegretti, John E., and J. Lago, to Merck & Co., Inc. Process of flushing unwanted residue from a vapor deposition system in which silicon is being deposited. 3,168,422, 2-2-65, Cl. 148-175.
Allegretti, John E., H. Gutsche, and W. J. McAleer, to Merck & Co., Inc. Crystallographic orientation of a cylindrical rod of semiconductor material in a vapor deposition process to obtain a polygonal shaped rod. 3,172,791, 3-9-65, Cl. 148-175.
Allegretti, John E., H. Gutsche, and W. J. McAleer, to Merck & Co., Inc. Monocrystalline elongate polyhedral semiconductor material. 3,226,269, 12-28-65, Cl. 148-335.
Allegretti, Pier L. Boats with two or more hulls. 3,221,697, 12-7-65, Cl. 114-665.
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Alleman, Benjamin D. Variable speed device. 3,184,021, 5-18-65, Cl. 192-58.
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Alleman, Ronald D. Animation device. 3,197,901, 8-3-65, Cl. 40-78.
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Allen, Charles L. Apparatus for periodic photography. 3,216,777, 11-9-65, Cl. 352-84.
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Allen, Charles S., Jr. Device for blowing a large bubble containing a plurality of small bubbles. 3,183,621, 5-18-65, Cl. 46-6.
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Allen, David F., to Mace, Rainbow and Stone Ltd. Rotatable workholder in combination with a travelling sewing machine. 3,180,292, 4-27-65, Cl. 112-2.
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- Altman, Norman A., and W. H. Bureau, to Butler Co. Apparatus and method for processing waste paper pulp slurries. 3,173,827, 3-16-65, Cl. 162-4.
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Anderegg, Billy A.: See—
Field, Henry M., and Anderegg. 3,225,916.
Anders, Joseph H., A. P. Da Vinci, and T. F. McHugh, to FMC Corp. Method of forming regenerated cellulose fibers. 3,225,125, 12-21-65, Cl. 264-50.
Anderle, Joseph A.: See—
Lorentzen, Hans K., Anderle, and Kapeller. 3,170,505.
Lorentzen, Hans K., Anderle, and Kapeller. 3,189,081.
Lorentzen, Hans K., Nelra, and Anderle. 3,169,006.
Anderle, Joseph A., to Levolor Lorentzen, Inc. Venetian blind arrangement. 3,192,991, 7-6-65, Cl. 160-167.
Anderle, Leonard. Ice fishing hole heater. 3,170,458, 2-23-65, Cl. 128-271.3.
Anders, Archie, to James H. Rhodes & Co. Floor pad holder. 3,183,542, 5-18-65, Cl. 15-246.
Anders, Walter G., to Sperry Rand Corp. Mechanized cabinet type file. Re. 25,919, 11-30-65, Cl. 312-223.
Anders, Walter G., to Sperry Rand Corp. Conveyor assembly for conveyor driven equipment. 3,202,265, 8-24-65, Cl. 198-158.
Anders, Walter G., to Sperry Rand Corp. Shelf unit. 3,216,567, 11-9-65, Cl. 211-184.
Anders, Walter G., and B. W. Woodward, to Sperry Rand Corp. Photosensitive object detecting mechanism. 3,197,646, 7-27-65, Cl. 250-222.
Andersen, Anders, to A/S.A. Andersen's Staalvarefabrik. Resilient harrow tooth. 3,225,840, 12-28-65, Cl. 172-708.
Andersen, Andrew W. Holder for fish and fishing poles. 3,177,523, 4-13-65, Cl. 17-8.
Andersen, Arthur, Jr., to American Farm Equipment Co. Crop dryers. 3,181,740, 5-4-65, Cl. 222-503.
Andersen, Arthur O., to The Trane Co. Absorption refrigeration system. 3,178,904, 4-20-65, Cl. 62-483.
Andersen, Charles V., to Continental Capital Corp. ("Continental"), and Sierra Capital Co. ("Sierra"). Tape driving apparatus. 3,221,963, 12-7-65, Cl. 226-109.
Andersen, Clifford W., to The Wurlitzer Co. Piano action spoon. 3,167,993, 2-2-65, Cl. 84-240.
Andersen, Clifford W., to The Wurlitzer Co. Keyframe arrangement. 3,177,752, 4-13-65, Cl. 84-432.
Andersen, Clifford W., to The Wurlitzer Co. Sharp key cap. 3,187,619, 6-8-65, Cl. 84-437.
Andersen, Donald L., to General Mills, Inc. Method of rejuvenating oil and gas wells. 3,174,929, 3-23-65, Cl. 252-8.55.
Andersen, Edward C. Water ski reel apparatus. 3,178,127, 4-13-65, Cl. 242-86.5.
Andersen, Edward O., to General Electric Co. Method of manufacturing a thermally responsive switch. 3,224,075, 12-21-65, Cl. 29-135.5.
Andersen, Erik, to Danfoss ved ing. M. Clausen. Differential pressure and manually operated safety switch arrangement. 3,194,915, 7-13-65, Cl. 200-83.

- Andersen, Erik, to Danfoss ved Ing. M. Clausen. Protection system for a driving motor. 3,200,294, 8-10-65, Cl. 317-13.
- Andersen, Gerald R., W. W. Harris, and K. C. Kern, to General Motors Corp. Oscillating diaphragm pump. 3,205,829, 9-14-65, Cl. 103-150.
- Andersen, H. W., Products, Inc.: See—
Andersen, Harold W. 3,189,031.
Andersen, Harold W. 3,207,133.
- Andersen, Harold W., to H. W. Andersen Products, Inc. Gastrointestinal sump tube. 3,189,031, 6-15-65, Cl. 128-350.
- Andersen, Harold W., to H. W. Andersen Products, Inc. Swimming pool heater. 3,207,133, 9-21-65, Cl. 122-250.
- Andersen, Harry M., and W. K. Johnson, to Monsanto Co. Catalyst compositions comprising aluminum chloride. 3,225,022, 12-21-65, Cl. 260-94.9.
- Andersen, Holger C., and P. L. Romeo, to Engelhard Industries, Inc. Process for the hydrogenolysis of light hydrocarbons. 3,180,902, 4-27-65, Cl. 260-676.
- Andersen, James A. Hydraulic method of mining coal and the like. 3,203,736, 8-31-65, Cl. 299-17.
- Andersen, James H., J. W. Amis, Jr., and M. D. Fuller, to Korry Mfg. Co. Self-locking push button switch operating device. 3,197,598, 7-27-65, Cl. 200-167.
- Andersen, James H., and M. D. Fuller, to Korry Mfg. Co. Multiturn electric terminal and indicator panel assembly and components. 3,201,786, 8-17-65, Cl. 340-381.
- Andersen, Johan M., to Duplison Co., Inc. Nestable industrial cart. 3,224,787, 12-21-65, Cl. 280-33.99.
- Andersen, John I. Pipe apparatus. 3,208,320, 9-28-65, Cl. 82-71.
- Andersen, Kaj O. Harrow tooth. 3,200,892, 8-17-65, Cl. 172-713.
- Andersen, Raymond C.: See—
Parlasca, Edwin W., and Andersen. 3,180,662.
- Andersen, Robert K., and G. E. Winslow; said Winslow assor. to said Andersen. Scoring apparatus for remotely scored games. 3,216,726, 11-9-65, Cl. 273-100.
- Andersen, Roger K., and C. P. Roseman. Locking cylinder. 3,177,780, 4-13-65, Cl. 92-24.
- Andersen, Stig. Ignition system for internal combustion engines. 3,189,009, 6-15-65, Cl. 123-41.
- Andersen, Walter, to Chem-Met-Anderson Engineering Co. Serrated roller conveyor. 3,171,528, 3-2-65, Cl. 193-37.
- Andersen, Walter, to Chem-Met-Anderson Engineering Co. Method of elimination of settle-blow in making bottles. 3,171,728, 3-2-65, Cl. 65-76.
- Andersen, Walter, to Chem-Met-Anderson Engineering Co. Method of making a parison. 3,171,729, 3-2-65, Cl. 65-76.
- Andersen, Walter, to Chem-Met-Anderson Engineering Co. Glass bottle parison machine. 3,171,732, 3-2-65, Cl. 65-229.
- Andersen, Alan P., and J. W. Richards, to Ford Motor Co. Seat belt holder. 3,178,222, 4-13-65, Cl. 297-385.
- Andersen, Alan P., and J. W. Richards, to Ford Motor Co. Seat belt positioners. 3,178,224, 4-13-65, Cl. 297-385.
- Andersen, Albert E., and D. E. Newell, to Collins Radio Co. Plural circuits selectively gated to common branch by diode gates in which diodes are either highly or slightly back-biased. 3,167,730, 1-26-65, Cl. 334-15.
- Andersen, Albert G., L. F. Perry, and G. L. Congdon, to The Meadowbrook Co. Multiple port rotary disc valve. 3,177,899, 4-13-65, Cl. 137-625.29.
- Andersen, Albert J. M., Mfg. Co.: See—
Cobbett, Leonard C. 3,183,335.
Winkler, Edward D. 3,218,599.
- Andersen, Albert L.: See—
Haugen, Norman D., and Andersen. 3,213,569.
- Andersen, Alexander E., to The British Ship Research Association. Supercharger for an internal combustion engine. 3,208,213, 9-28-65, Cl. 60-13.
- Andersen, Alfred J.: See—
Hardman, Kenneth V., and Andersen. 3,187,951.
- Andersen, Alvin P., to Shell Oil Co. Lubricating oil process. 3,224,955, 12-21-65, Cl. 208-28.
- Andersen, Andrew W., to Scandia Packaging Machinery Co. Collating machines. 3,216,173, 11-9-65, Cl. 53-60.
- Andersen, Ardis L., and E. Wilk, to Continental Oil Co. Apparatus for sampling a process stream under vacuum. 3,209,598, 10-5-65, Cl. 73-422.
- Andersen, Arne H., and J. E. Wachtel, to Hamilton Mfg. Co. Table and bench assembly. 3,191,991, 6-29-65, Cl. 297-159.
- Andersen, Arne H., and J. E. Wachtel, to Hamilton Mfg. Co. Folding table assembly. 3,212,463, 10-19-65, Cl. 108-113.
- Andersen, Arnold E., and R. E. Kaptur, to Ford Motor Co. Speed responsive fluid released clutch. 3,166,165, 1-19-65, Cl. 192-3.5.
- Andersen, Arnold E., C. C. Bookout, and R. E. Kaptur, to Ford Motor Co. Control system for infinitely variable power transmission mechanism. 3,184,913, 5-25-65, Cl. 60-19.
- Andersen, Arthur A., to The Specialty Mfg. Co. Grass catching attachment for rotary mowers. 3,213,600, 10-26-65, Cl. 56-202.
- Andersen, Arthur F., to Gar Wood Industries, Inc. Hydrostatic drive for motor vehicles. 3,177,964, 4-13-65, Cl. 180-66.
- Andersen, Arthur F., to Gar Wood Industries, Inc. Variable displacement piston pump. 3,186,352, 6-1-65, Cl. 103-162.
- Andersen, Arthur F., to Gar Wood Industries, Inc. Hydrostatic drive. 3,199,286, 8-10-65, Cl. 60-19.
- Andersen, Arthur L., and E. M. Tritt, to General Motors Corp. Transistorized power inverter. 3,221,182, 11-30-65, Cl. 307-88.5.
- Andersen, Arvin D., to Sinclair Research, Inc. Removing metal contaminants from silica-based cracking catalysts. 3,178,882, 3-16-65, Cl. 252-413.
- Andersen, Arvin D., and R. A. Sanford, to Sinclair Research, Inc. Cracking a metal-contaminated residual oil. 3,168,459, 2-2-65, Cl. 208-57.
- Andersen, Arvin D., E. H. Burk, Jr., L. L. Simahel, and R. A. Sanford, to Sinclair Research, Inc. Process for the removal of nickel, iron, and vanadium from a silica based cracking catalyst. 3,168,482, 2-2-65, Cl. 252-415.
- Andersen, Arvin D., R. L. Foster, and H. G. Russell, to Sinclair Research, Inc. Two stage cracking of residuals. 3,201,341, 8-17-65, Cl. 208-74.
- Andersen, Axel: See—
Lofgren, Charles O., and Andersen. 3,222,702.
- Andersen, Axel, to Sundstrand Corp. Fluid pumping and stirring apparatus. 3,179,384, 4-20-65, Cl. 259-96.
- Andersen, Beaumont K. Corner square. 3,167,101, 1-26-65, Cl. 144-2.
- Andersen, Bernard J., to General Electric Co. Rotor assembly. 3,165,294, 1-12-65, Cl. 253-77.
- Andersen Brass Co.: See—
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- Andersen Bros. Mfg. Co.: See—
Stohliquist, Roger H. 8,216,175.
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- Andersen, Burton C., and G. R. Morlock, to E. I. du Pont de Nemours and Co. Preparation of trifluoromethyl fluoromethane and bis(trifluoromethyl) carbonate. 3,226,418, 12-28-65, Cl. 260-463.
- Andersen, C. Gordon: See—
Thouvenelle, Beryl E., Stringer, and Andersen. 3,200,977.
- Andersen, Carl M., and J. W. Endress, to Carrier Corp. Refrigeration apparatus. 3,210,955, 10-12-65, Cl. 62-117.
- Andersen, Carl P.: See—
Clark, Clayton H., and Andersen. 3,205,305.
Kleinschmidt, Edward F., and C. P. and H. A. Andersen, Clark, and Sherrick. 3,187,096.
- Andersen, Charles C. Road sweeper. 3,212,118, 10-19-65, Cl. 15-82.
- Andersen, Charles H. J.: See—
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- Andersen, Charles M., to W. R. Stamler Corp. Material handling apparatus. 3,221,865, 12-7-65, Cl. 198-53.
- Andersen, Chester B., to Ford Motor Co. Positive drive differential. 3,211,622, 10-12-65, Cl. 74-711.
- Andersen, Clarence L.: See—
Braden, Arthur B., Jr., Kleekamp, Aygun, and Andersen. 3,175,487.
- Andersen, Clayton & Co.: See—
Sinclair, Alfred C. and S. W. 3,172,351.
Sinclair, Stuart W. 3,182,836.
- Andersen, Cleve R., and H. W. Alter, to General Electric Co. Irradiated fuel reprocessing. 3,222,124, 12-7-65, Cl. 23-14.5.
- Andersen, Clifford E., to ACF Industries, Inc. Seat for top entry ball valve. 3,184,213, 5-18-65, Cl. 251-172.
- Andersen, Clifford E., to ACF Industries, Inc. Plug valve. 3,184,215, 5-18-65, Cl. 251-309.
- Andersen, Clifford E., to ACF Industries, Inc. Integral valve and seat unit. 3,223,111, 12-14-65, Cl. 137-454.6.
- Andersen, Clifford E., to ACF Industries, Inc. Gate valve. 3,226,078, 12-28-65, Cl. 251-62.
- Andersen, Clifford E., and R. A. Gulick, to ACF Industries, Inc. Fire safe ball valve. 3,174,495, 3-23-65, Cl. 137-74.
- Andersen, Clifford E., J. S. Downs, and R. A. Gulick, to ACF Industries, Inc. Ball valve with sealing capsule. 3,192,948, 7-6-65, Cl. 137-454.6.
- Andersen, Clifford E., and W. E. Lowrey, to ACF Industries, Inc. Valve seat structure having pressure-actuated seal means. 3,215,157, 11-2-65, Cl. 137-246.
- Andersen, Clifford R., Jr.: See—
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- Anderson Co., The: See—
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Krohm, Fred A. 3,180,758.
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Wubbe, Leo J. 3,163,877.
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Wubbe, Leo J. 3,188,679.
- Anderson, Darrell C. Portable hydraulic wool sacker. 3,211,193, 10-12-65, Cl. 141-73.
- Anderson, David B., to Wood Conversion Co. Panel board clip. 3,187,389, 6-8-65, Cl. 20-92.

- Anderson, David F.: See—
Stanton, Arthur J., Anderson, and Boniface. 3,199,415.
Stanton, Arthur J., Anderson, and Taylor. 3,168,982.
Stanton, Arthur J., Anderson, and Taylor. 3,170,372.
Stanton, Arthur J., Anderson, Taylor, and King. 3,169,445.
- Anderson, Donald A., to American Motors Corp. Dump hopper. 3,225,947, 12-28-65, Cl. 214-302.
- Anderson, Donald E., to The Regents of the University of Minnesota. Thin film superconducting solenoids. 3,205,418, 9-7-65, Cl. 317-158.
- Anderson, Donald E., to The Regents of the University of Minnesota. Thin film magnetic energy accumulator. 3,205,461, 9-7-65, Cl. 333-76.
- Anderson, Donald E., and D. E. Christensen, to Weyerhaeuser Co. Pallet. 3,216,378, 11-9-65, Cl. 108-56.
- Anderson, Donald F., J. G. Moxness, and D. W. Folske, to Minnesota Mining and Mfg. Co. Copying machine. 3,214,584, 10-26-65, Cl. 250-65.
- Anderson, Donald J., to California Research Corp. Lactone amides in lubricating oils. 3,200,075, 8-10-65, Cl. 252-51.5.
- Anderson, Douglas G., and E. Kaweckl, to Sturdevant Mfg. Corp. Spring actuated starter for engines. 3,164,142, 1-5-65, Cl. 123-179.
- Anderson, Duane H., to Sperry Rand Corp. Computing device incorporating interruptible repeat instruction. 3,168,724, 2-2-65, Cl. 340-172.5.
- Anderson-Dunham, Inc.: See—
Murphy, Bynum E. 3,182,730.
Murphy, Bynum E. 3,213,644.
- Anderson, Earl F. Stringed musical instrument. 3,185,011, 5-25-65, Cl. 84-293.
- Anderson, Earl R., to Filper Corp. Peach pitter. 3,185,195, 5-25-65, Cl. 146-28.
- Anderson, Earl R., to Filper Corp. Fitting method. 3,217,767, 11-16-65, Cl. 146-238.
- Anderson, Edwin A. Circulating whipstock. 3,174,549, 3-23-65, Cl. 166-117.5.
- Anderson Electric Corp.: See—
Shaw, Truman B. 3,185,762.
- Anderson, Emmett R., and C. W. Hanks, to Stauffer Chemical Co. Apparatus for projecting an electron beam along a curved path having variable impedance. 3,204,096, 8-31-65, Cl. 250-49.5.
- Anderson, Erik A., to Elektrolux, Aktiebolaget. Collapsible manipulating handle for floor treating machine. 3,203,707, 8-31-65, Cl. 280-47.37.
- Anderson, Eugene A., to Scovill Mfg. Co. Machine for setting fasteners upon blanks. 3,225,994, 12-28-65, Cl. 227-39.
- Anderson, Eugene J.: See—
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Stuller, Frank G., Gumz, and Anderson. 3,202,263.
- Anderson, Floyd R., to Gardner-Denver Co. Drilling tool and method of making the same. 3,190,380, 6-22-65, Cl. 175-410.
- Anderson, Frank P., to Thiokol Chemical Corp. Solid propellant rocket motor having reverse thrust generating means. 3,196,610, 7-27-65, Cl. 60-33.54.
- Anderson, Fred A.: See—
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- Anderson, Fred N., and W. L. Cherry, to Cherry Electrical Products Corp. Crossbar slide selector switch with a current conducting means. 3,205,319, 9-7-65, Cl. 200-16.
- Anderson, Fred W.: See—
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- Anderson, Frohman. Pneumatic tire having drive means contained within. 3,205,962, 9-14-65, Cl. 180-10.
- Anderson, Geoffrey B., to Charles Pitt (Barton Stacey) Ltd. Road vehicles. 3,198,364, 8-3-65, Cl. 214-505.
- Anderson, George A. M., to The King Co. Air curtain apparatus. 3,215,058, 11-2-65, Cl. 98-36.
- Anderson, George B.: See—
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- Anderson, George B., and W. R. Miller, to Consolidated Machine Tool Division of Farrel-Birmingham Co., Inc. Axle lathe. 3,177,743, 4-13-65, Cl. 82-8.
- Anderson, George C., to North American Aviation, Inc. Frequency regulator. 3,164,769, 1-5-65, Cl. 322-32.
- Anderson, George C., to Otis Elevator Co. Rail positioning and fastening device. 3,199,642, 8-10-65, Cl. 189-36.
- Anderson, George C. Container with valve operated nozzle. 3,221,943, 12-7-65, Cl. 222-183.
- Anderson, George W. Inflating means for life saving devices. 3,198,384, 8-3-65, Cl. 222-5.
- Anderson, Gerald R.: See—
Hickey, Frank D., Hirahara, and Anderson. 3,192,974.
- Anderson, Gerald R., and S. H. Creed, to FMC Corp. Fruit stemming, coring and splitting machine. 3,199,558, 8-10-65, Cl. 146-52.
- Anderson, Gerald V., to North American Aviation, Inc. Welded structure and method for making same. 3,185,815, 5-25-65, Cl. 219-187.
- Anderson, Glenn L. Paper sack. 3,212,697, 10-19-65, Cl. 229-57.
- Anderson, Gordon D.: See—
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- Anderson, Gordon R., to Desalination Plants (Developers of Zarchin Process) Ltd. System and method for deriving potable water. 3,175,372, 3-30-65, Cl. 62-123.
- Anderson, Gordon R., Jr., to Howard Industries, Inc. Method of assembling an electric motor. 3,209,434, 10-5-65, Cl. 29-155.5.
- Anderson, Greenwood & Co.: See—
Weise, Irvin B., and Greenwood. 3,211,174.
- Anderson, Gunnar E., to Westinghouse Electric Corp. Grounding wiring device. 3,173,781, 3-16-65, Cl. 339-14.
- Anderson, Gustaf A. Inflating device for flotation gear. 3,221,932, 12-7-65, Cl. 222-5.
- Anderson, Harold W., deceased; (by F. W. Anderson and Massachusetts Institute of Technology, legal representatives), C. R. Larkin, and W. L. Clark, to United States of America, Navy. Preparation of glass cells containing helium of high purity. 3,178,864, 4-20-65, Cl. 53-22.
- Anderson, Henry J., and R. J. Shartran, to The Gleason Works. Work handling mechanism. 3,169,446, 2-16-65, Cl. 90-1.
- Anderson, Herbert L. Thickness measurement using alpha particles. 3,193,680, 7-6-65, Cl. 250-83.3.
- Anderson, Herbert R., to Tri-Wall Containers, Inc. Steel rule die cutter for cutting crushable materials. 3,186,283, 6-1-65, Cl. 83-623.
- Anderson, Herbert R., to Tri-Wall Containers, Inc. Corrugated carton having crush-relieved flaps. 3,199,763, 8-10-65, Cl. 229-37.
- Anderson, Herbert R., Jr., to Phillips Petroleum Co. Rubber products resistant to radiation damage. 3,175,992, 3-30-65, Cl. 260-45.7.
- Anderson, Herbert R., Jr., to Phillips Petroleum Co. Boron nitride-alkali metal compounds as polymerization catalyst. 3,214,418, 10-26-65, Cl. 260-94.2.
- Anderson, Hilding A.: See—
Kleinschmidt, Edward F., and C. P. and H. A. Anderson, Clark, and Sherrick. 3,187,096.
- Anderson, Hilding A., and C. H. Clark, to SCM Corp. Sliding switch devices for coding apparatus. 3,205,317, 9-7-65, Cl. 200-5.
- Anderson, Howard A.: See—
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- Anderson, Howard A., to United States Steel Corp. Metal can end. 3,197,059, 7-27-65, Cl. 220-24.
- Anderson, Howard A., and R. W. Herring. Device for lifting bed patients. 3,224,016, 12-21-65, Cl. 5-327.
- Anderson, Howard W., to The Kaydon Engineering Corp. Recirculating spline bearing. 3,210,136, 10-5-65, Cl. 308-6.
- Anderson, Howard W., to The Kaydon Engineering Corp. Articulated roller bearing construction. 3,219,398, 11-23-65, Cl. 308-6.
- Anderson, Hubert J., to Automatic Welding Co. Welding apparatus. 3,182,177, 5-4-65, Cl. 219-125.
- Anderson, Hubert J., to Automatic Welding Co. Portable welding apparatus. 3,217,136, 11-9-65, Cl. 219-130.
- Anderson, Hugo F., and A. L. Ludwig, to Hastings Mfg. Co. Seals for valve stems for internal combustion engines and the like. 3,171,659, 3-2-65, Cl. 277-33.
- Anderson, James A., and P. J. Erpenbeck, to Breneman Hartshorn Inc. Pin end plug for metal window shade roller. 3,195,618, 7-20-65, Cl. 160-323.
- Anderson, James D., and E. L. Cheh, to Burndy Corp. Connector carry block and connectors. 3,217,872, 11-16-65, Cl. 206-65.
- Anderson, James E., to Jackson Vibrators, Inc. Tamping machine drive. 3,203,359, 8-31-65, Cl. 105-27.
- Anderson, James H., to Borg-Warner Corp. Means for fixing wheels on shafts. 3,165,342, 1-12-65, Cl. 287-52.
- Anderson, James P.: See—
Angstadt, John W., Ehlert, and Anderson. 3,208,506.
- Anderson, John A.: See—
Van Auwelaer, Albert J., and Anderson. 3,174,635.
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- Anderson, John A., to Grove Valve and Regulator Co. Resilient seal members of elongated cross section for fluid-flow control valves. 3,198,483, 8-3-65, Cl. 251-327.
- Anderson, John B.: See—
Houston, William L., Jr., and Anderson. 3,192,286.
- Anderson, John E., to Union Carbide Corp. Method for generating an arc. 3,200,233, 8-10-65, Cl. 219-74.
- Anderson, John E., and N. W. Franke, to Gulf Research & Development Co. Process for carboxylation of iso-olefins. 3,167,585, 11-26-65, Cl. 260-533.
- Anderson, John G., to General Electric Co. Electric power transmission system. 3,211,914, 10-12-65, Cl. 307-3.
- Anderson, John H., and W. K. Priese, to Hills-McCanna Co. Ball valve having offset through passage. 3,168,279, 2-2-65, Cl. 251-181.
- Anderson, John J., to S. C. Johnson & Son, Inc. Aerosol valve with means to lock same in the open position. 3,187,963, 6-8-65, Cl. 222-394.
- Anderson, John L., to International Business Machines Corp. Superconductive circuits. 3,179,925, 4-20-65, Cl. 340-173.1.
- Anderson, John L., to International Business Machines Corp. Superconductive transmission line circuits. 3,191,056, 6-22-65, Cl. 307-88.5.
- Anderson, John L., to International Business Machines Corp. Random or associative access memory. 3,197,653, 7-27-65, Cl. 307-88.5.
- Anderson, John L., to International Business Machines Corp. Low cost autotransformer. 3,202,949, 8-24-65, Cl. 336-149.

- Anderson, John L. Holst control mechanism. 3,203,671, 8-31-65, Cl. 254-141.
- Anderson, John L., to Cleanometer Corp. Radioactive process for detection of surface contamination. 3,215,839, 11-2-65, Cl. 250-106.
- Anderson, John L., and K. L. Berry, to E. I. du Pont de Nemours and Co. Fluorobutadienes, fluorobutadiene polymers, and preparation of the same. 3,218,303, 11-16-65, Cl. 260-82.1.
- Anderson, John M.: See—
- Glatz, Charles E., and Anderson. 3,170,048.
- Anderson, John M. Adjustable cable straps. 3,176,945, 4-6-65, Cl. 248-71.
- Anderson, John P., and R. K. Van Ausdal, to The Bendix Corp. Servo valve feedback system. 3,218,936, 11-23-65, Cl. 91-365.
- Anderson, John R. Electronic tuner for musical instruments. 3,180,199, 4-27-65, Cl. 84-454.
- Anderson, John R. Unijunction transistor oscillator circuit. 3,202,937, 8-24-65, Cl. 331-111.
- Anderson, John R., and G. S. Somekh, to Union Carbide Corp. Separation of aromatic hydrocarbons from nonaromatic hydrocarbons. 3,186,937, 6-1-65, Cl. 208-314.
- Anderson, John W.: See—
- Hess, Robert W., Thomsen, Porter, and Anderson. 3,212,932.
- Hess, Robert W., Thomsen, Porter, and Anderson. 3,212,933.
- Anderson, Joseph J.: See—
- Morrison, Heber J., and Anderson. 3,210,684.
- Anderson, Joseph W. Exercise device with treadable base. 3,218,065, 11-16-65, Cl. 272-57.
- Anderson, Karl A., to Controls Co. of America. Loading apparatus for molds. 3,173,171, 3-16-65, Cl. 18-5.
- Anderson, Karl R., and R. S. Fischer. Electric water heating and storage device. 3,189,725, 6-15-65, Cl. 219-293.
- Anderson, Kay O.: See—
- Hodnefeld, Olaus T. 3,201,265.
- Anderson, Kelvin G., to W. R. Grace & Co. Method for transporting dielectric material. 3,198,409, 8-3-65, Cl. 226-1.
- Anderson, Kelvin G., and P. P. Spolsino, to W. R. Grace & Co. Dispensing apparatus for wax-impregnated material. 3,165,958, 1-19-65, Cl. 83-170.
- Anderson, Kenneth A., to Ametek, Inc. Filter. 3,206,034, 9-14-65, Cl. 210-347.
- Anderson, Kenneth A., to Ametek, Inc. Filter. 3,212,639, 10-19-65, Cl. 210-104.
- Anderson, Kenneth A., to Ametek, Inc. Filter leaf having internal heat exchange means. 3,212,640, 10-19-65, Cl. 210-185.
- Anderson, Kermit R.: See—
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- Anderson, Lawrence A., to Eastman Kodak Co. Dry, vitamin-active product and process for preparing same. 3,184,385, 5-18-65, Cl. 167-81.
- Anderson, Lawrence C.: See—
- Buchholz, Arnold R., and Anderson. 3,196,257.
- Anderson, Lloyd D., to United States of America, Navy. Electrical sound simulator. 3,181,138, 4-27-65, Cl. 340-384.
- Anderson, Lloyd E., to Pittsburgh-Des Moines Steel Co. Elevated tank support. 3,219,224, 11-23-65, Cl. 220-1.
- Anderson, Lloyd E., Sr., to Pittsburgh-Des Moines Steel Co. Method of making a welded joint. 3,182,179, 5-4-65, Cl. 219-137.
- Anderson, Louis C., Jr., and A. A. Hagstrom, to Teletype Corp. Printing telegraph keyboard. 3,171,890, 3-2-65, Cl. 178-25.
- Anderson, Louis M., to Allis Chalmers Mfg. Co. Head control for particle counter. 3,220,777, 11-30-65, Cl. 302-14.
- Anderson, Louis W. Plastic well screen point. 3,168,924, 2-9-65, Cl. 175-314.
- Anderson Machine & Tool Works, Inc.: See—
- Eldson, James M. 3,165,959.
- Fisher, Richard A. 3,210,906.
- Anderson, Malcolm G., to The Goodyear Tire & Rubber Co. Tire bead grommet and method of making same. 3,170,662, 2-23-65, Cl. 245-1.5.
- Anderson, Malcolm G., and J. S. Hawkes, to The Goodyear Tire & Rubber Co. Safety tire and valve therefor. 3,191,654, 6-29-65, Cl. 152-341.
- Anderson, Mardis V., and L. P. Valencic, to Collins Radio Co. Dual band blade antenna with filtering and matching network on blade. 3,210,764, 10-5-65, Cl. 343-708.
- Anderson, Marvin E., to IIT Research Institute. Magnetic transducer. 3,164,682, 1-5-65, Cl. 179-100.2.
- Anderson, Maynard E.: See—
- Noakes, Thomas E., Anderson, and Polkinghorn. 3,223,143.
- Plasko, Emil R., and Anderson. 3,194,931.
- Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Multi-cycle program timer. 3,188,504, 6-8-65, Cl. 307-141.4.
- Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Air-controlled liquid dispensing mechanism for washing machines. 3,223,285, 12-14-65, Cl. 222-70.
- Anderson, Maynard E., J. Chapa, and M. W. Polkinghorn, to American Radiator & Standard Sanitary Corp. Thermally-operated control means. 3,194,074, 7-13-65, Cl. 73-363.
- Anderson, Maynard E., T. E. Noakes, and R. B. Remick, to American Radiator & Standard Sanitary Corp. Motor-operated valve. 3,206,117, 9-14-65, Cl. 236-1.
- Anderson, Maynard E., E. R. Plasko, J. Sokoly, and M. W. Polkinghorn, to American Radiator & Standard Sanitary Corp. Vacuum-operated valve. 3,206,159, 9-14-65, Cl. 251-28.
- Anderson, Maynard E., J. Chapa, and M. W. Polkinghorn, to American Radiator & Standard Sanitary Corp. Thermomagnetic control comprising a thermo-influenced magnetic element and a permanent magnet. 3,206,573, 9-14-65, Cl. 200-88.
- Anderson, Maynard E., and M. W. Polkinghorn, to American Radiator & Standard Sanitary Corp. Air conditioner damper control. 3,213,928, 10-26-65, Cl. 165-26.
- Anderson, Maynard L.: See—
- Wade, Dennis E., and Anderson. 3,165,461.
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- Fischer, William D., Van Roo, Berry, Anderson, and Korb. 3,224,681.
- Anderson, Murl H., to Concept Engineering Co., Inc. Explosive-operated anchor assembly. 3,207,145, 9-21-65, Cl. 114-206.
- Anderson, Neal S., and C. E. William, to TRW Inc. Signal correlation system. 3,212,092, 10-12-65, Cl. 343-112.
- Anderson, Nelson E., deceased (S. B. Anderson, administrator), to Air Reduction Co., Inc. Stabilized eddy current seam follower. 3,201,562, 8-17-65, Cl. 219-125.
- Anderson, Nelson E., deceased, by S. B. Anderson, administrator, to Air Reduction Co., Inc. Two length gap fusion spot welding method. 3,213,261, 10-19-65, Cl. 219-127.
- Anderson, Nelson E., deceased (S. B. Anderson, administrator), to Air Reduction Co., Inc. Torch carriage. 3,220,629, 11-30-65, Cl. 228-25.
- Anderson, Olof V., to Anson, Inc. Necktie holder. 3,204,306, 9-7-65, Cl. 24-52.
- Anderson, Paul P., and A. Busemann, to The American Agricultural Chemical Co. Method of making marshmallow. 3,206,315, 9-14-65, Cl. 99-134.
- Anderson, Paul T., and J. B. Ramsey, to Westington Electric Corp. Thermal overload relay with reset means. 3,213,243, 10-19-65, Cl. 200-122.
- Anderson, Paul Z.: See—
- Margarian, Gerald M., and Anderson. 3,208,403.
- Anderson, Phillip A.: See—
- Heidner, Richard C., and Anderson. 3,220,896.
- Anderson, Phillip C., to Feed Service Corp. Nutrient compositions and process for preparing same. 3,198,635, 8-3-65, Cl. 99-2.
- Anderson, Phillip C., to Feed Service Corp. Animal feeding device. 3,200,790, 8-17-65, Cl. 119-51.
- Anderson, Phillip P., Jr., to Arkla Industries Inc. Refrigeration system. 3,177,930, 4-13-65, Cl. 165-62.
- Anderson, Quinn S.: See—
- De Bell, Arthur G., Anderson, and Simmons. 3,205,343.
- Anderson, Ralph F.: See—
- Anderson, Swan F., and R. F. 3,206,915.
- Anderson, Ralph F. Hydraulic measuring apparatus and control system. 3,207,367, 9-21-65, Cl. 222-18.
- Anderson, Ralph F., to National Lock Co. High chair tray catch and swivel assembly. 3,212,814, 10-19-65, Cl. 297-155.
- Anderson, Ralph F. Carton construction. 3,219,257, 11-23-65, Cl. 229-51.
- Anderson, Ralph F., and L. Strombeck; said Strombeck assor. to said Anderson. Carton filling machine. 3,172,435, 3-9-65, Cl. 141-131.
- Anderson, Ralph F., and L. K. Ploughman, to National Lock Co. Counterbalancing lid support. 3,203,575, 8-31-65, Cl. 220-35.
- Anderson, Ralph S., to Sperry Rand Corp. Universal receptacle shell coding device. 3,184,707, 5-18-65, Cl. 339-186.
- Anderson, Reuben E.: See—
- Murray, Donald A., and Anderson. 3,195,652.
- Anderson, Reynold M.: See—
- Rockwell, Harvey W., and Anderson. 3,206,880.
- Anderson, Richard N., to V. E. Anderson Mfg. Co. Retaining structure for window sash and counterweights. 3,172,189, 3-9-65, Cl. 20-52.
- Anderson, Richard C.: See—
- Cash, Burns A., and Anderson. 3,179,731.
- Anderson, Richard D., to United States of America, Navy. Calibrated infrared source, adjustable for spectrum, frequency, and intensity. 3,211,910, 10-12-65, Cl. 250-86.
- Anderson, Richard H., to The Robinson Clay Product Co. Seal for pipe joints. 3,185,491, 5-25-65, Cl. 277-237.
- Anderson, Richard L., to International Business Machines Corp. Fast switching diodes. 3,208,887, 9-23-65, Cl. 148-33.
- Anderson, Richard L., J. C. Marinace, and M. J. O'R. Ingham, to International Business Machines Corp. Vapor deposition process to form a retrograde impurity distribution p-n junction formation wherein the vapor contains both donor and acceptor impurities. 3,190,773, 6-22-65, Cl. 148-175.
- Anderson, Richard M.: See—
- Hart, John A., and Anderson. 3,220,156.
- Anderson, Robert B. Aquatic device. 3,194,206, 7-13-65, Cl. 115-28.
- Anderson, Robert F. Adjustable brassiere. 3,200,821, 8-17-65, Cl. 128-492.

- Anderson, Robert G.: See—
- Kenyeris, Nicholas, and Anderson. 3,192,447.
- Stuart, Frank A., and Anderson. 3,182,024.
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- Anderson, Robert G., and Y. G. Hendrickson, to California Research Corp. Corrosion inhibited lubricants. 3,185,646, 5-25-65, Cl. 252-46.7.
- Anderson, Robert G., and Y. G. Hendrickson, to California Research Corp. Lubricant composition. 3,185,647, 5-25-65, Cl. 252-46.7.
- Anderson, Robert G., and L. R. Honnen, to California Research Corp. Polyolperaziny succinimides in lubricating oils. 3,200,076, 8-10-65, Cl. 252-51.2.
- Anderson, Robert H., to Tektronix, Inc. Storage tube and electrical readout apparatus and method for such tube. 3,214,516, 10-26-65, Cl. 178-6.8.
- Anderson, Robert H., to Tektronix, Inc. Tube having target with store and/or non-store sections. 3,214,631, 10-26-65, Cl. 315-12.
- Anderson, Robert L., to Brunswick Corp. Bowling ball accelerating return system. 3,206,199, 9-14-65, Cl. 273-49.
- Anderson, Robert M., and L. A. Demchuck, Jr., to General Electric Co. Method of making flash lamps. 3,188,162, 6-8-65, Cl. 316-20.
- Anderson, Robert P., to General Electric Co. Implosion resistant cathode ray tubes. 3,184,327, 5-18-65, Cl. 117-63.
- Anderson, Robert V. Refrigeration unit having superheated gas feedback. 3,214,929, 11-2-65, Cl. 62-117.
- Anderson, Robert W., to Norton Co. Watering machine. 3,168,087, 2-2-65, Cl. 125-16.
- Anderson, Roy H., to Felch-Anderson Co. Fastening device. 3,187,399, 6-8-65, Cl. 24-206.
- Anderson, Roy S.: See—
- Feuer, Henry, and Anderson. 3,213,147.
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- Anderson, Sidney E., to Deere & Co. Harvesting roll. 3,174,484, 3-23-65, Cl. 130-5.
- Anderson, Stanley L.: See—
- Nettleton, Donald F., and Anderson. 3,164,049.
- Anderson, Swan F. and R. F.; said S. F. Anderson assor. of 1/4 to R. F. Anderson, and 1/4 to V. Spencer. Packaging apparatus. 3,206,915, 9-21-65, Cl. 53-374.
- Anderson, Tage O., to Consolidated Systems Corp. Digital transient analyzer. 3,192,519, 6-29-65, Cl. 340-347.
- Anderson, Thomas F., D. C. Trimble, D. H. Storey, and E. B. Hoffman, to Havg Industries, Inc., a wholly-owned subsidiary of Hercules Powder Co. Insulated nestable container and method of making the same. 3,203,611, 8-31-65, Cl. 229-1.5.
- Anderson, Thomas P., and R. Belspel, to Microseal Corp. Film record card. 3,220,133, 11-30-65, Cl. 40-150.
- Anderson, Thor A., 1/2 to A. J. Schmedlin, Jr. Pocketed ball game with projecting means. 3,166,323, 1-19-65, Cl. 273-119.
- Anderson, Thure, to United States of America, Atomic Energy Commission. Sweeping image mirror camera. 3,174,153, 3-16-65, Cl. 352-84.
- Anderson, Thure, to United States of America, Atomic Energy Commission. Stepped gas bearing. 3,195,963, 7-20-65, Cl. 308-9.
- Anderson Tool & Mfg. Co.: See—
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- Anderson, V. E., Mfg. Co.: See—
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- Anderson, Vern A., G. L. Durney, deceased (by J. L. Durney, widow), to Worthington Corp. Adjustable pitch sheave. 3,214,986, 11-2-65, Cl. 74-230.17.
- Anderson, Vern C., to Western Land Roller Co. Ear corn attachment for roller mills. 3,217,765, 11-16-65, Cl. 146-71.
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- Stone, Hester E., and Anderson. 3,167,072.
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- Witt, Albert L. 3,198,561.
- Anderson, Walter J., to Chicago Musical Instrument Co. Electrical musical instrument. 3,190,951, 6-22-65, Cl. 84-123.
- Anderson, Walter J., to Chicago Musical Instrument Co. Key switch assembly. 3,193,607, 7-6-65, Cl. 84-104.
- Anderson, Walter J., and C. W. Welsh. Organ stop mechanism. 3,200,186, 8-10-65, Cl. 84-119.
- Anderson, Warren A., to United States of America, Navy. Simulation of radar interference. 3,193,606, 7-6-65, Cl. 35-10.4.
- Anderson, Warren D. Cleat guard. 3,198,160, 8-3-65, Cl. 114-218.
- Anderson, Warren L., to Halliburton Co. Acoustic logging system. 3,212,598, 10-19-65, Cl. 181-5.
- Anderson, Wayne E. Bumper carrier for a two-wheeled vehicle. 3,225,986, 12-28-65, Cl. 224-42.03.
- Anderson, Weston A., to Varian Associates. Gyromagnetic resonance method and apparatus. 3,173,084, 3-9-65, Cl. 324-5.
- Anderson, Weston A., to Varian Associates. Apparatus for improving the homogeneity of a magnetic field. 3,199,021, 8-3-65, Cl. 324-5.
- Anderson, Weston A., to Varian Associates. Quantum resonance method and apparatus. 3,202,908, 8-24-65, Cl. 324-5.
- Anderson, Weston A., F. A. Nelson, and D. L. Wright, to Varian Associates. Gyromagnetic resonance method and apparatus. 3,173,083, 3-9-65, Cl. 324-5.
- Anderson, William. Form structure for concrete foundations and the like. 3,171,185, 3-2-65, Cl. 25-131.
- Anderson, William, and G. F. Hargreaves, to Evans Medical Ltd. Gastro-intestinal therapeutic. 3,175,942, 3-30-65, Cl. 167-55.
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- Vernam, William D., and Anderson. 3,171,760.
- Anderson, William A., and A. W. Demmler, Jr., to Aluminum Co. of America. Thermal treatment of aluminum base alloy product. 3,219,491, 11-23-65, Cl. 148-11.5.
- Anderson, William A., and A. W. Demmler, Jr., to Aluminum Co. of America. Thermal treatment of aluminum base alloy product. 3,219,492, 11-23-65, Cl. 148-11.5.
- Anderson, William B. Low-vehicle straddling luggage carrying trailer. 3,215,448, 11-2-65, Cl. 280-400.
- Anderson, William E., and G. C. Schmid, to Reigel Paper Corp. Method of making a porous coated product. 3,174,889, 3-23-65, Cl. 156-254.
- Anderson, William F., and D. F. Casey, to North American Aviation, Inc. Heat exchanger. 3,176,761, 4-6-65, Cl. 165-81.
- Anderson, William G., to Collins Radio Co. Synthetic rate generator. 3,167,697, 1-26-65, Cl. 318-28.
- Anderson, William H.: See—
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- Anderson, William H. Camping trailer. 3,177,030, 4-6-65, Cl. 296-23.
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- Landsverk, Ole G., and Anderson. 3,200,654.
- Anderson, William S., and R. D. Mullineaux, to Shell Oil Co. Lubricants and additives therefor. 3,208,946, 9-28-65, Cl. 252-59.
- Anderson, William S., and J. Boor, Jr., to Shell Oil Co. Lubricants containing cyclohydrocarbon polymers and method of preparing said polymers. 3,223,638, 12-14-65, Cl. 252-59.
- Anderson, Wilmer C., and S. J. Demby, to General Time Corp. Low power drain pulse formers. 3,201,593, 8-17-65, Cl. 307-83.
- Anderson, Wilmer C., and M. J. Ingenito, to General Time Corp. Digital storage and readout device. 3,214,573, 10-26-65, Cl. 235-92.
- Anderson, Wilmer C., F. P. Rennie, and M. J. Ingenito, to General Time Corp. Temperature compensated magnetic oscillator. 3,215,951, 11-2-65, Cl. 331-113.
- Anderson, Wright, (South Africa) Ltd.: See—
- Van den Berg, Michael A. 3,190,725.
- Andersson, Bengt I., to Nyby Bruks Aktiebolag. Method of electrolytic metal plating. 3,223,600, 12-14-65, Cl. 204-26.
- Andersson, Craig R., to Sun Oil Co. Apparatus for counter-current liquid-liquid contacting. 3,164,444, 1-5-65, Cl. 23-270.5.
- Andersson, Ivar O.: See—
- Lomar, Stig B. S., and Andersson. 3,171,772.
- Andersson, Lars M., to Ab Melka. Method in the manufacture of shirts, pajamas and the like of binding them for packing. 3,180,543, 4-27-65, Cl. 223-71.
- Andersson, Per L.: See—
- Aberth, Oliver G., and Andersson. 3,183,482.
- Andersson, Per L., and O. G. Aberth, to Sperry Rand Corp. Check digit verifiers. 3,191,009, 6-22-65, Cl. 235-153.
- Andersson, Rudolf W. Reamer with reinforced cooled shank. 3,199,382, 8-10-65, Cl. 77-72.
- Andersson, Rudolf W. Fluid cooled reamer with land channel. 3,216,107, 11-9-65, Cl. 29-567.
- Andersson, Rune A. Testing device. 3,177,702, 4-13-65, Cl. 73-40.
- Andersson, Stig G., to Tetra Pak, AB. Method of producing sealed and partially filled packages of equal filling degrees. 3,187,476, 6-8-65, Cl. 53-28.
- Andersson, Sven W. E.: See—
- Osborne, Fred H., Andersson, and Tuttle. 3,165,321.
- Andersson, Torsten A., and E. H. Carlsson, to Aktiebolaget Overuns Bruk. Device for controlling plows, particularly multifurrow plows. 3,195,653, 7-20-65, Cl. 172-449.
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- Andex Corp.: See—
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- Ando, Sazo, to Kowa Co., Ltd. Single-lens reflex camera. 3,165,992, 1-19-65, Cl. 95-42.
- Ando, Yoshio: See—
- Fujimura, Tadato, and Ando. 3,177,577.
- Ando, Yoshio, and T. Fujimura, to Japan Atomic Energy Research Institute. Method of reinforcing graphite articles by depositing fused metals. 3,170,058, 2-16-65, Cl. 219-76.
- Andonian, Martin D. Modular Dewar vessel for cryogenic use. 3,176,473, 4-6-65, Cl. 62-45.

- Andouze, Bernard: *See*—
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- Andrae, Gunter, to North American Phillips Co., Inc. Method of soldering grid wires, in particular to frames of frame grids of electric discharge tubes. 3,205,571, 9-14-65, Cl. 29-471.1.
- Andrassy, Stella: *See*—
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- Andrassy, Stella. Process and apparatus for the separation of hydrocarbons from tar sands. 3,208,930, 9-28-65, Cl. 208-11.
- Andre, Arlee A., to The Procter & Gamble Co. Culinary mix for producing chemically leavened baked goods. 3,170,795, 2-23-65, Cl. 99-94.
- Andre, Arlee A., and H. B. Sweringen, to The Procter & Gamble Co. Packaged culinary mix for preparing rich baked goods. 3,170,796, 2-23-65, Cl. 99-94.
- Andre, Claude: *See*—
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- Andre, Henri G., to Yardney International Corp. Electrode for electrochemical device. 3,184,340, 5-18-65, Cl. 136-78.
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- Andre, Noble, deceased, by J. D. Andre, executrix, to St. Regis Paper Co. Carrier for cans. Re. 25,949, 12-14-65, Cl. 206-65.
- Andre, Noble, deceased (by J. D. Andre, executrix), and D. M. Blue, to St. Regis Paper Co. Multibottle package and carrier. 3,175,684, 3-30-65, Cl. 206-65.
- Andrea Corp.: *See*—
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- Andreasen, Christian B., to Air-Shields, Inc. Lung ventilators and control mechanism therefor. Re. 25,871, 10-5-65, Cl. 128-29.
- Andreasen, Howard P., to Delavan Mfg. Co., Inc. Acoustic transducer with diaphragm clamped by a half-wavelength spaced casing support. 3,210,725, 10-5-65, Cl. 340-17.
- Andreasen, Alfred E. O., to Chamberlain Corp. Shelf structure. 3,185,315, 5-25-65, Cl. 211-153.
- Andreasson, Rudolf W., Sr. Deep-hole drill and reamer. 3,169,417, 2-16-65, Cl. 77-65.
- Andregg, Ernest R., and L. A. Strommen, to Bell Telephone Laboratories, Inc. Coin telephone control apparatus. 3,170,039, 2-16-65, Cl. 179-63.
- Andregg, Ernest R., W. Pford, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Automatic call transmitter. 3,189,692, 6-15-65, Cl. 179-90.
- Andren, Karl H., to Artos Engineering Co. Apparatus for production of electrical conductors. 3,201,848, 8-24-65, Cl. 20-33.
- Andreoli, Gianni, to Mitrulux Establishment. Light and image projectors. 3,185,023, 5-25-65, Cl. 88-24.
- Andres, John M., to TRW Inc. Resonance absorption filtering system for an optically pumped gas cell. 3,211,055, 10-12-65, Cl. 88-61.
- Andres, John M., to TRW Inc. Optically pumped gyromagnetic apparatus. 3,214,683, 10-26-65, Cl. 324-5.
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- Andres, Louis, and A. Kleiber, to Potasse et Engrais Chimiques. Process for manufacturing complex fertilizers, partially soluble in water. 3,177,063, 4-6-65, Cl. 71-37.
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- Andresen, John H., to Kollsman Instrument Corp. Integrated flight instrument system. 3,206,974, 9-21-65, Cl. 73-178.
- Andresen, John H., Jr., to Astek Instrument Corp. Combined airspeed and mach indicator. 3,205,708, 9-14-65, Cl. 73-182.
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- Andresen, Raymond H., to Gits Bros. Mfg. Co. Rotary seal employing a flexible sleeve. 3,179,425, 4-20-65, Cl. 277-89.
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- Andress, Harry J., Jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Itaconamic acids. 3,173,945, 3-16-65, Cl. 260-501.
- Andress, Harry J., Jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Liquid hydrocarbons. 3,199,965, 8-10-65, Cl. 44-71.
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- Andrew, Alfred T.: *See*—
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- Yang, Richard F. H. 3,193,831.
- Yang, Richard F. H. 3,226,722.
- Andrew, Frederick L.: *See*—
Vitallis, Emil A., and Andrew. 3,206,408.
- Andrew, Harold B., to Bell Telephone Laboratories, Inc. Wave analysis system utilizing time reversal. 3,182,256, 5-4-65, Cl. 324-77.
- Andrew, Harold B., to Bell Telephone Laboratories, Inc. Orthogonal spectral analysis apparatus for message waveforms. 3,217,251, 11-9-65, Cl. 324-77.
- Andrew, Harold G. V-block attachment. 3,218,059, 11-16-65, Cl. 269-271.
- Andrew, Herbert F., and D. Buckley, to Imperial Chemical Industries Ltd. Metallized azo halopyrimidine dyestuffs. 3,198,782, 8-3-65, Cl. 260-146.
- Andrew, Herbert F., and R. Baker, to Imperial Chemical Industries Ltd. Metallized diazo and trisazo compounds. 3,207,746, 9-21-65, Cl. 260-146.
- Andrew, Thomas A. Gun perforator and explosive projectile therefor. 3,209,650, 10-5-65, Cl. 89-1.
- Andrews, Anatol N. Telephone alarm contact protecting device. 3,207,849, 9-21-65, Cl. 179-5.
- Andrews, Anthony A. Device for mounting and locking fishing rods and their reeling mechanism. 3,204,362, 9-7-65, Cl. 43-26.
- Andrews, Bethlehem K., and J. G. Frick, Jr., to United States of America, Agriculture. Process of rendering cellulosic textiles wrinkle resistant by reacting with bis (N-methylol carbamoyl) methylamine. 3,107,384, 1-26-65, Cl. 8-116.3.
- Andrews, Bethlehem K., and J. G. Frick, Jr., to United States of America, Agriculture. Process of creaseproofing cellulosic fabrics with tetrakis (N-methylolcarbamoyl) ethylenediamine. 3,202,473, 8-24-65, Cl. 8-116.3.
- Andrews, Carroll A., to International Business Machines Corp. Core adder. 3,185,826, 5-25-65, Cl. 235-175.
- Andrews, Carroll A., W. D. Thoner, R. D. Watson, and C. J. Tilton, to International Business Machines Corp. Magnetic core transfer matrix. 3,210,734, 10-5-65, Cl. 340-172.5.
- Andrews, Clarence G. Bale loader. 3,178,830, 4-6-65, Cl. 198-128.
- Andrews, David B., and N. J. Asman, to American Can Co. Carton with tear-open end closure. 3,214,079, 10-26-65, Cl. 229-51.
- Andrews, Donald E., F. L. Hooper, and C. W. Whaples, to Cambridge Wire Cloth Co. Woven wire conveyor belt. 3,202,387, 8-24-65, Cl. 245-6.
- Andrews, Eugene D., D. V. Francis, and D. J. Rode, to Koppers Co., Inc. Process for the expandable particles of styrene polymer. 3,207,712, 9-21-65, Cl. 260-25.
- Andrews, Frederick N., and M. Stob, to Purdue Research Foundation. Anabolic and estrogenic compound and process of making. 3,196,019, 7-20-65, Cl. 99-2.
- Andrews, George L. Masonry guide line holder. 3,205,582, 9-14-65, Cl. 33-85.
- Andrews, George L. Bricklaying guide. 3,206,854, 9-21-65, Cl. 33-85.
- Andrews, Harland C., and B. W. Thomas, to Texas Instruments Inc. Method for manufacture of semiconductor devices. 3,215,570, 11-2-65, Cl. 148-187.
- Andrews, James B., and J. C. Fischer, to St. Regis Paper Co. Shipping wrapper. 3,203,618, 8-31-65, Cl. 229-40.
- Andrews, Jess W.: *See*—
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- Andrews, Maxwell C., to International Business Machines Corp. Specimen identification apparatus with means for altering stored specimen reference functions. 3,191,149, 6-22-65, Cl. 340-146.3.
- Andrews, Maxwell C., to International Business Machines Corp. Specimen identification system with adaptive and non-adaptive storage comparators. 3,191,150, 6-22-65, Cl. 340-146.3.
- Andrews Paper & Chemical Co.: *See*—
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- Muller, Peter. 3,203,798.
- Andrews, Raleigh C. Lock for sliding windows. 3,166,347, 1-19-65, Cl. 292-202.
- Andrews, Richard A.: *See*—
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- Andrews, Robert O. Tree felling and land-clearing attachment. 3,216,467, 11-9-65, Cl. 144-34.
- Andrews, Theodore E., to General Electric Co. Control mechanism for a toaster or similar appliance. 3,202,799, 8-24-65, Cl. 219-492.
- Andrews, Thomas D. H.: *See*—
Dowty, George H., and Andrews. 3,163,987.
- Dowty, George H., Tinson, Eeles, and Andrews. 3,188,023.
- Thoma, Oswald, and Andrews. 3,200,760.
- Andrews, Thomas D. H., and O. Thoma, to Dowty Hydraulic Units Ltd. and Unipat A.G. Rotating wear plate. 3,180,276, 4-27-65, Cl. 103-162.
- Andrews, Thomas D. H., and A. C. Walker, to Dowty Technical Developments Ltd. Boats, amphibious vehicles and other waterborne vessels. 3,198,161, 8-3-65, Cl. 115-14.

- Andrews, William G. Pistol stabilizer. 3,184,877, 5-25-65, Cl. 42-72.
- Andrews, Zenas B., to United States of America, Navy. Hydraulic cylinder-zero external volumetric change type. 3,224,751, 12-21-65, Cl. 267-1.
- Andrews, Zenas B., C. R. Brown, and W. T. Price, to United States of America, Navy. Missile launcher shock absorber. 3,167,294, 1-26-65, Cl. 248-358.
- Andrewsen, Harry W., and C. D. Gordon, to California Research Corp. Preparation of alkenyl succinic anhydrides. 3,202,679, 8-24-65, Cl. 260-346.8.
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- Andriot, Lawrence J., Jr.: *See*—
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- Andris, Raimund, to Kienzle Appare G.m.b.H. Die arrangement. 3,211,034, 10-12-65, Cl. 83-137.
- Andriulis, Vytautas. Pressure gage. 3,199,356, 8-10-65, Cl. 73-399.
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- Marsh, Lynn W., Jr. 3,189,835.
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- Anello, Louis G., and C. Woolf, to Allied Chemical Corp. Manufacture of fluorine compounds. 3,185,541, 5-25-65, Cl. 23-14.
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- Anetsberger Bros., Inc.: *See*—
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- Anetsberger, Richard J. 3,217,633.
- Anetsberger, Richard J. 3,217,704.
- Anetsberger, Joseph F., to Anetsberger Bros., Inc. Rotary knock-out cutter. 3,217,575, 11-16-65, Cl. 83-115.
- Anetsberger, Richard J., to Anetsberger Bros., Inc. Semi-tube fryers. 3,217,633, 11-16-65, Cl. 99-327.
- Anetsberger, Richard J., to Anetsberger Bros., Inc. Deep fat production fryers. 3,217,704, 11-16-65, Cl. 126-391.
- Anett, Raymond L.: *See*—
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- Angeld, Egil, to Allmanna Svenska Elektriska Aktiebolaget. Device for setting the rolling space in a rolling mill. 3,178,918, 4-20-65, Cl. 72-8.
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- Angelberger, Erich: *See*—
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- Angele, Wilhelm. Printed armature device. 3,209,187, 9-28-65, Cl. 310-266.
- Angele, Wilhelm, and H. G. Martineck, to United States of America, National Aeronautics and Space Administration. Electrical connector for flat cables. 3,189,864, 6-15-65, Cl. 339-176.
- Angelery, Henry W. Dynamically balanced valve. 3,213,887, 10-26-65, Cl. 137-630.15.
- Angeles Machine & Welding Corp.: *See*—
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- Angelini, Sergio, to J. Dolas. Rotary motion transmitting mechanism for internal combustion engines and the like. 3,200,859, 8-17-65, Cl. 74-219.
- Angell, Clifford H., and M. G. Deriaz, to Imperial Chemical Industries Ltd. Method for the production of platinum coated titanium anodes. 3,177,131, 4-6-65, Cl. 204-98.
- Angell, James W. Variable ratio fluid drive. 3,186,172, 6-1-65, Cl. 60-54.
- Angell, James W. Fluid suspension system for vehicles. 3,186,730, 6-1-65, Cl. 280-104.
- Angelucci, Thomas L.: *See*—
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- Angelus, Anthony D.: *See*—
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- Anger, Hal O. Beam position identification means. 3,209,201, 9-28-65, Cl. 315-9.
- Angiello, Joseph, D. Magaletto, and A. Pinori, to Pam Plastics Inc. Apparatus for making a plastic painting shield. 3,225,357, 12-28-65, Cl. 18-19.
- Angioletti, Attilio, to Pirelli S.p.A. Rubber gas mask. 3,181,531, 6-4-65, Cl. 128-141.
- Angioletti, Attilio, and B. Wetzel, to Societa Applicazioni Gomma Antivibranti S.A.G.A. S.p.A. Metal rubber composite sealing plate. 3,197,358, 7-27-65, Cl. 161-116.
- Angle, Duward P., to Burlington Industries, Inc. Filling tail removal equipment. 3,175,588, 8-30-65, Cl. 139-256.
- Angle, Kenneth J. Universal hose coupler. 3,185,503, 5-25-65, Cl. 285-74.
- Angle, Paula A. Nail light bracelet. 3,179,795, 4-20-65, Cl. 240-59.
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- Anglemeyer, Alfred A. Fetal extractor. 3,183,911, 5-18-65, Cl. 128-333.
- Angliker, Emil: *See*—
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- Anglo Paper Products, Ltd.: *See*—
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- Keld, James F. 3,176,628.
- Taylor, Richard F. 3,169,440.
- Angold, Edward B., to The Plessey Co. Ltd. Centrifugal switch assemblies. 3,193,639, 7-6-65, Cl. 200-80.
- Angold, John A., to Keystone Railway Equipment Co. Freight car underframe with hydraulic cushioning. 3,186,562, 6-1-65, Cl. 213-8.
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- Angquist, Torsten F., to Crescent Niagara Corp. Wire grip. 3,193,897, 7-13-65, Cl. 24-134.
- Angrisani, Aldo. Magnetic device for circuit control. 3,226,508, 12-28-65, Cl. 200-87.
- Angstadt, John W., F. H. Ehler, and J. P. Anderson, to Blaw-Knox Co. Splash guard-mist extractor. 3,208,506, 9-28-65, Cl. 159-12.
- Angsten, Robert J., to United States of America, Army. Screw jack brake device. 3,206,994, 9-21-65, Cl. 74-424.8.
- Angus, Ernest T., A. T. Shepherd, and D. T. N. Williamson, to Ferranti, Ltd. Measuring apparatus for determining the extent and sense of relative movement of one object with respect to another. 3,165,679, 1-12-65, Cl. 318-27.
- Angus, George & Co. Ltd.: *See*—
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- Jagger, Ernest T., and Hunter. 3,195,180.
- Jagger, Ernest T., and Wallace. 3,189,356.
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- Anhanger, Norvald and O. Machine for portioned extruding of chopped meat, or a similar plastic mass. 3,203,037, 8-31-65, Cl. 17-32.
- Anhanger, Odd: *See*—
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- Anhanger-Busch, Inc.: *See*—
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- Ziegler, Homer F., Jr., and Buehler. 3,219,457.
- Anleit Anstalt: *See*—
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- Waly, Moustapha. 3,194,997.
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- Anken Chemical & Film Corp.: *See*—
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- La Combe, Edward M., Ankeney, Thompson, and Walter. 3,222,328.
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- Ankersen, Borge R. Rotary barrel salt bath furnaces. 3,206,182, 9-14-65, Cl. 266-33.
- Ankersen, Borge R. Salt pumps and heat treating lines. 3,215,419, 11-2-65, Cl. 266-4.
- Ankersen, Borge R. Rotary barrel salt bath metal melting and testing furnaces. 3,215,421, 11-2-65, Cl. 266-33.
- Anker-Werke Aktiengesellschaft: *See*—
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- Ankney, Robert W. Can closures. Re. 25,765, 4-20-65, Cl. 222-569.
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- Siegrist, Adolf E., and Anliker. 3,178,338.
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- Annat, Robert B., to Massey-Ferguson (United Kingdom) Ltd. Power operated hitch providing constant weight transfer. 3,167,133, 1-26-65, Cl. 172-7.
- Annat, Robert B., to Massey-Ferguson (United Kingdom) Ltd. Tractor hitch arrangement. 3,173,496, 3-16-65, Cl. 172-440.

Annat, Robert B., to Massey-Ferguson (United Kingdom) Ltd. Tractor weight transfer control. 3,198,547, 8-3-65, Cl. 280-405.

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Williams, Lynn A. 3,214,361.

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Anscherlik, Arnost, to Vyzkumny ustav energeticky. Refilling arrangement for an automatic burette. 3,182,865, 5-11-65, Cl. 222-416.

Anscherlik, Arnost. Device for dosing reagents in automatic analyzers or other intermittently operating chemical apparatus. 3,186,808, 6-1-65, Cl. 23-292.

Anscherlik, Arnost. Automatic coulometric analyzer. 3,189,533, 6-15-65, Cl. 204-195.

Anscherlik, Arnost. Device for multiple recording of colorimetric values. 3,191,178, 6-2-65, Cl. 346-33.

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Anschutz, Otto, to L. & C. Steinhilber G.m.b.H. Combined coal dust and gas firing system. 3,188,987, 6-15-65, Cl. 110-22.

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Anson, Arthur H. Telephone supplementary dial attachment. 3,197,573, 7-27-65, Cl. 179-90.

Anson, Inc.: See—

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Anson, William E., to Coin-controlled compressed air dispenser. 3,208,574, 9-28-65, Cl. 194-3.

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Anspach, Herman F., to Western Electric Co., Inc. Apparatus for loading components. 3,177,629, 4-13-65, Cl. 53-198.

Anspach, Ralph, and D. C. Killen. Smoking pipes. 3,204,642, 9-7-65, Cl. 131-178.

Anspach, Robert, to United States of America, Navy. Double-layer warhead. 3,223,036, 12-14-65, Cl. 102-67.

Anspach, Roy L., to Aeronca Mfg. Corp. Method and apparatus for indexing and assembling a core strip to a honeycomb core panel. 3,225,433, 12-28-65, Cl. 29-429.

Anspach, Roy L., to Aeronca Mfg. Corp. Apparatus for fabricating honeycomb material. 3,226,524, 12-28-65, Cl. 219-78.

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Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen Energa: See—

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Anstett, Edgar P. Synthetic plastic nailing strip. 3,165,968, 1-19-65, Cl. 85-17.

Anstett, Edgar P. Nailing strip. 2,211,284, 10-12-65, Cl. 206-56.

Anstett, Edgar P. Pneumatically power operated nailing machine. 3,211,352, 10-12-65, Cl. 227-136.

Anstett, Raymond M., to Colgate-Palmolive Co. Detergent bar. 3,226,330, 12-28-65, Cl. 252-117.

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Anstey, Richard W. and D. B. Positioning means for women's belts. 3,184,760, 5-25-65, Cl. 2-312.

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Antalek, John J., to TRW Inc. Coil form mounting arrangement for inductance devices. 3,223,951, 12-14-65, Cl. 336-92.

Antenna Specialists Co.: See—

Evile, William T., and Finke. 3,224,716.

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Antes, Clifford C., J. Villorosi, and W. C. Poland, Jr., to Union Carbide Corp. Thermotreating method and apparatus. 3,180,397, 4-27-65, Cl. 158-27.4.

Antes, John A., and D. D. Phelps, to Dravo Corp. Process and apparatus for fire-hardening pellets. 3,172,754, 8-9-65, Cl. 75-5.

Anthony, Erik W.: See—

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Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Materials handling apparatus. 3,178,266, 4-13-65, Cl. 23-253.

Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Liquid collecting apparatus and a valve therefor. 3,190,497, 6-22-65, Cl. 222-64.

Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Sample handling apparatus. 3,193,148, 7-6-65, Cl. 222-108.

Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Coupling devices. 3,197,241, 7-27-65, Cl. 285-138.

Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Valve. 3,199,538, 8-10-65, Cl. 137-625.18.

Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Method for attaching connector elements to resiliently flexible tubing. 3,225,435, 12-28-65, Cl. 29-432.2.

Anthony, Erik W., to Warner-Lambert Pharmaceutical Co. Turntable drive. 3,225,628, 12-28-65, Cl. 74-822.

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Stephens, James D., Anthony, and Danko. 3,215,415.

Anthony, Benjamin F., to Oglebay Norton Co. Make up machine or apparatus for hot tops. 3,216,069, 11-9-65, Cl. 22-9.

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Mathers, Robert V., and Sass. 3,175,706.

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Anthony, Felix M. Automatic crimping machine. 3,190,096, 6-22-65, Cl. 77-110.

Anthony, Forrest S., and W. R. Colquitt, to Hudson Hosiery Co. Sinker control means and method for circular knitting machine. 3,172,274, 3-9-65, Cl. 66-108.

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Anthony, Joseph C. Automatic buoy line adjustment mechanism. 3,196,469, 7-27-65, Cl. 9-8.

Anthony, Myron L., to Scully-Anthony Corp. Machine tools. 3,175,203, 3-16-65, Cl. 29-568.

Anthony, Myron L., to Scully-Anthony Corp. Control for tool storage matrix, using individual re-settable code data registers. 3,173,204, 3-16-65, Cl. 29-568.

Anthony, Myron L., to Scully-Anthony Corp. Binary key identifier for machine tools. 3,187,123, 6-1-65, Cl. 200-44.

Anthony, Myron L., to Scully-Anthony Corp. Exclusive or logical element. 3,189,752, 6-15-65, Cl. 307-88.5.

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Anthony, Paul. Automatic pull gun. 3,190,104, 6-22-65, Cl. 85-45.

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Anthony, Roy. Cup containing beverage ingredient. 3,186,850, 6-1-65, Cl. 99-78.

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Anthony, Russel W., to National Broach & Machine Co. Broaching apparatus. 3,221,008, 12-7-65, Cl. 90-95.

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Anthony, William E. Plastic mortar shell. 3,181,465, 5-4-65, Cl. 102-41.

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Anton, Erik W., to Warner-Lambert Pharmaceutical Co. Closure for pressurized containers. 3,170,607, 2-23-65, Cl. 222-400.7.

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Anton, Nicholas. Supercritical pressure ionization chamber for detection of radiant energy. 3,207,938, 9-21-65, Cl. 313-93.

Anton, Nicholas T., to Wen Products, Inc. Electric belt sander. 3,176,436, 4-6-65, Cl. 51-170.

Anton, Nicholas T., to Wen Products, Inc. Electric hand plane. 3,207,195, 9-21-65, Cl. 145-4.

Antonides, Basil, to Radio Corp. of America. Mesh electrode support structure. 3,202,857, 8-24-65, Cl. 313-89.

Antonides, Harold J., to Armour Pharmaceutical Co. Conjugated bile acid separation. 3,180,794, 4-27-65, Cl. 167-55.

Antonides, Harold J., and R. L. Dietzweiler, to Armour Pharmaceutical Co. Alcidal and sanitizing compositions. 3,201,311, 8-17-65, Cl. 167-22.

Antonio, John, and R. Townsend, to Sperry Rand Corp. Pulse semiconductor amplifier with a reduced leakage current effect. 3,197,709, 7-27-65, Cl. 330-18.

Antonious, Anthony J., 25% to L. A. Rheume. Golf tee. 3,203,700, 8-31-65, Cl. 273-202.

Antonsen, Donald H., to Sun Oil Co. Method of preparing synthetic lubricating oil. 3,179,711, 4-20-65, Cl. 260-683.15.

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Aoki, Nobuhiko, and Z. Abe, to Kabushiki Kaisha Hitachi Seisakusho. Variable-capacitance diode modulator. 3,221,272, 11-30-65, Cl. 332-47.

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Apicella, Nicholas. Mortar dispenser. 3,163,881, 1-5-65, Cl. 15-555.

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Apitz, Julius H. Ice fishing tip-up. 3,187,456, 6-8-65, Cl. 43-17.

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Appeldorn, Roger H., and F. C. Lustig, to Minnesota Mining and Mfg. Co. Portable overhead projecting apparatus. 3,209,646, 10-5-65, Cl. 88-24.

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- Applegate, Robert B., to Cleveland Electrical Equipment Co., Inc. Method of making an armature. 3,173,194, 3-16-65, Cl. 29-155.53.
- Applegate, Vernon C., and J. H. Howell, to United States of America, Interior. Method for controlling petromyzon marinus. 3,219,521, 11-23-65, Cl. 167-31.
- Appelquist, James E., to International Business Machines Corp. Digital data detection circuitry. 3,164,815, 1-5-65, Cl. 340-174.1.
- Appelquist, James E., and W. G. Dye, to International Business Machines Corp. Format control for disk recording. 3,208,057, 9-21-65, Cl. 340-174.1.
- Appleton, Arthur I. Rotary engine of the sliding vane type. 3,164,139, 1-5-65, Cl. 123-14.
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- Appleton, Arthur I. Controlled beam high intensity flood lamp. 3,177,354, 4-6-65, Cl. 240-3.
- Appleton, Arthur I. Hanger for pipe and conduit. 3,185,418, 5-25-65, Cl. 248-72.
- Appleton, Arthur I. Explosion-proof panel board. 3,210,608, 10-5-65, Cl. 317-99.
- Appleton, Arthur I. Explosion-proof panel board with offset mounting. 3,210,609, 10-5-65, Cl. 317-119.
- Appleton, Arthur I., C. H. Lindell, and A. P. Stephensen, to Appleton Electric Co. Flood lamp fixture. 3,213,270, 10-19-65, Cl. 240-3.
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- Archer, Erling B. Automatic ice making devices. 3,182,464, 5-11-65, Cl. 62-135.
- Archer, Erling B. Automatic ice cube freezing apparatus. 3,182,468, 5-11-65, Cl. 62-353.
- Archer, Erling B. Automatic ice cube making apparatus. 3,206,940, 9-21-65, Cl. 62-135.
- Archer, Fred C., and T. H. Lohr, to Barber-Greene Co. Jaw crusher. 3,160,259, 1-19-65, Cl. 241-219.
- Archer, Harry W., and D. B. Powell, to General Electric Co. Electrically operated circuit breaker. 3,198,907, 8-3-65, Cl. 200-92.
- Archer, Harry W., K. W. Klein, and K. J. Stokes, to General Electric Co. Circuit breaker trip device. 3,205,325, 9-7-65, Cl. 200-88.
- Archer, Lee A., to The Pyle-National Co. Slot-type air fixture for a ceiling ventilating-lighting system. 3,169,467, 2-16-65, Cl. 98-40.
- Archer, Lee A., to The Pyle-National Co. Air measuring device. 3,173,296, 3-16-65, Cl. 73-213.
- Archer, Lee A., and E. M. Caferro, to The Pyle-National Co. Aspiration-type combination light and ventilating unit. 3,165,051, 1-12-65, Cl. 98-40.
- Archer, Marie. Cable clamps. 3,184,817, 5-25-65, Cl. 24-123.
- Archer, Richard K., to National Research Development Corp. Centrifugation of whole blood to separate eosinophils. 3,170,838, 2-23-65, Cl. 167-74.
- Archer, Robert L., and S. Hirsch, to Fairchild Camera and Instrument Corp. Self-starting timing escapement. 3,186,238, 6-1-65, Cl. 74-1.5.
- Archer, Sydney, to Sterling Drug Inc. 1-[(1, 2- and 3-indolyl)-lower] piperazine derivatives and intermediates and processes for the preparation thereof. 3,188,313, 6-8-65, Cl. 260-268.
- Archer, Sydney, and M. R. Bell, to Sterling Drug Inc. 8-substituted-a-noregonine esters and preparation thereof. 3,167,560, 1-26-65, Cl. 260-292.
- Archer, Sydney, and J. W. Schulenberg, to Sterling Drug Inc. 1-aryloxindoles and their preparation. 3,189,617, 6-15-65, Cl. 260-319.
- Archer, Virgil L., to Haut's Development Co., Inc. Flour dropper for cookie making machine. 3,186,358, 6-1-65, Cl. 107-7.
- Archer, Virgil L., to Haut's Development Co., Inc. Dough dropper for cookie making machines. 3,203,369, 8-31-65, Cl. 107-29.
- Archer, Virgil L., and R. M. Challenger, to Haut's Development Co., Inc. Flattening and flour dusting device for cookie making machine. 3,177,822, 4-13-65, Cl. 107-15.
- Archer, Virgil L., R. M. Challenger, and J. N. Roll, to Haut's Development Co., Inc. Jelly dropper for cookie making machines. 3,177,846, 4-13-65, Cl. 118-25.
- Archer, Virgil L., and F. A. Spilsbury. Folding device for cookie making machine. 3,190,240, 6-22-65, Cl. 107-1.
- Archer, William E., to Joy Mfg. Co. Cyclone dust collector having a wear shield. 3,225,525, 12-28-65, Cl. 55-346.
- Archery Lanes, Inc.: See—
Sanzare, Charles P. 3,197,207.
- Archibald, Campbell W. Paint roller device. 3,205,526, 9-14-65, Cl. 15-230.11.
- Archibald, Paul B., to United States of America, Atomic Energy Commission. Apparatus for solvent-isostatic pressing. 3,177,553, 4-13-65, Cl. 25-45.
- Archibald, Ronald L.: See—
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- Archibald Co., The: See—
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- Arco Corp.: See—
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- Arde-Portland, Inc.: See—
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- Ardern, Milton W. Variable control means. 3,224,295, 12-21-65, Cl. 74-568.
- Ardis, Vernon W., 50% to H. Berke. Game structure with individually rotatable blocks. 3,178,185, 4-13-65, Cl. 273-130.
- Arditi, Maurice, to International Telephone and Telegraph Corp. Atomic clock. 3,174,114, 3-16-65, Cl. 331-3.
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- Ardoin, James R., 5% to Nilsson, Robbins & Anderson and 33 1/3% to Ben and Barbara Weigandt. Jet engine noise suppressor with sbroud for aspiration of air into exhaust stream. 3,215,172, 11-2-65, Cl. 181-43.
- Ardolino, Edward J. Firearm magazine. 3,191,332, 6-29-65, Cl. 42-50.
- Arecheta, Mota, Juan A. Portable artificial respirator. 3,216,413, 11-9-65, Cl. 128-29.
- Arena, Anthony G. Portable fuel igniter. 3,209,712, 10-5-65, Cl. 110-1.
- Arena, Biagio, to Conte Luna Foods, Inc. Method and apparatus for drying alimentary paste. 3,209,465, 10-5-65, Cl. 34-28.
- Arena, Guido. Torch for arc-oxygen underwater cutting and welding. 3,223,817, 12-14-65, Cl. 219-70.
- Arena, John F., to Baker Brush Co., Inc. Brush construction. 3,172,141, 3-9-65, Cl. 15-192.
- Arena, Joseph C. Golf form sighting and guiding device. 3,197,209, 7-27-65, Cl. 273-183.
- Arena, Joseph P., and R. J. Smith, to Verticals, Inc. Vertical vane traverse mechanism. 3,190,346, 6-22-65, Cl. 160-172.
- Arenco Aktiebolag: See—
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Argabright, Perry A., and E. A. Schmall, to Esso Research and Engineering Co. Catalyst and process for polymerizing alpha-olefins utilizing titanium halide derivatives. 3,193,545, 7-6-65, Cl. 260-93.7.

Argamakoff, Alexis. Process for producing a thermistor. 3,177,560, 4-13-65, Cl. 29-155.5.

Argentieri, Michael A., to International Telephone and Telegraph Corp. Display system. 3,200,498, 8-17-65, Cl. 33-1.

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- Arutunoff, Armato, to Reda Pump Co. Dual-flow transfer assembly. 3,170,520, 2-23-65, Cl. 166-65.
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- Arwine, Robert. Battery receiving, charging, and dispensing device. 3,171,568, 3-2-65, Cl. 221-66.
- Arzt, Emanuel. Safety attachment for cuff links. 3,220,073, 11-30-65, Cl. 24-41.
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- Ashby, Eugene C., to Ethyl Corp. Process for preparing diborane. 3,214,244, 10-26-65, Cl. 23-204.
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- Babany, Lucien, and S. Sibon: To Compagnie Industrielle des
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- Bache, David E., and J. Hiron: To The Rover Co. Ltd.
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- Bachelder, Millard J., F. E. Satchell, and W. J. Diamond:
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- Bachelet, Albert E., and J. S. Bomba: To Bell Telephone
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- Bachelet, Gilbert H., and D. Brulet: To Air France. Method
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- Bacheller, Rene G.: To A. Trulliz, S.A.S. Closing system for
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- Bachelor, William B.: To United States of America, Navy.
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- Bachhuber, Theodore J.: Automatic primer cap feeder for
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- Bachl, Herbert: Forced-flow boiler with a plurality of re-
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- Bachl, Herbert: Rotary turbine. 3,226,085, 12-28-65, Cl.
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- Bachle, Carl F.: To Continental Aviation and Engineering
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- Bachle, Carl F., and W. F. Isley: To Continental Aviation and
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- Bachman, Gustave B.: To Purdue Research Foundation.
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- Bachman, Robert A.: To Clary Corp. Wire matrix printer.
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- Bachman, Walter S.: See—
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- Bachman, William S., A. A. Goldberg, and A. Kaiser: To
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- Bachmann, Dittmar, H. Steinrotter, E. Paszthory, and H.
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- Bachmann, Elmar H.: Reinforcing mat handling means.
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- Bachmann, Frank J.: Measuring instrument. 3,212,192, 10-
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- Back, Frank G.: Photographic camera and projection device.
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- Back, Frank G., and L. Sterflinger: To Zoomar, Inc. Reticle
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- Backhaus, Otto, E. K. Roscher, L. Kort, deceased (by R.
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- Backlund, Sven: To Ford Motor Co. Motor vehicle air sus-
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- Backmark, Nils E.: To North American Phillips Co., Inc. Ap-
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- Backmark, Nils E. G., F. Sellburg, H. O. E. Arkhammar, T.
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- Bacon, Frank R.: To Owens-Illinois, Inc. Method of increas-
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- Bacon, Karl W., and E. O. Morgan, to Walt Disney Productions. Bobsled amusement ride. 3,167,024, 1-26-65, Cl. 104-63.
- Bacon, Kenneth H., N. L. Carr, A. M. Henke, and H. C. Stauffer, to Gulf Research & Development Co. Process for regenerating molecular sieves. 3,188,293, 6-8-65, Cl. 252-411.
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- Bacon, Walter H. Over-running clutch. 3,190,417, 6-22-65, Cl. 192-45.
- Bacon, Walter H. Clutch mechanism. 3,221,850, 12-7-65, Cl. 192-45.
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- Badalini, Giovanni, to Cambi Idraulici Badalini, S.p.A. Continuous hydraulic speed change gear with two speed ranges having different amplitudes for vehicles. 3,199,378, 8-10-65, Cl. 74-732.
- Badalini, Giovanni, to Badalini, Cambi Idraulici, S.p.A. Power-recovery continuous hydraulic change speed gear, particularly suitable for vehicles. 3,221,571, 12-7-65, Cl. 74-472.
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- Bade, John P., E. R. Keeler, and T. W. Kwap, to General Precision, Inc. Computer protection circuit. 3,167,685, 1-26-65, Cl. 317-9.
- Baden, Harry C., and C. C. Bard, to Eastman Kodak Co. Formaldehyde and succinaldehyde gelatin hardening composition and method of hardening therewith. 3,220,849, 11-30-65, Cl. 96-111.
- Baden, Thomas A., to Donaldson Co., Inc. Afterburner system. 3,201,933, 8-24-65, Cl. 60-30.
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- Bader, Howard E., and R. A. Warren, to Douglas Aircraft Co., Inc. Cargo latch. 3,210,038, 10-5-65, Cl. 248-361.
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- Bailey, Paul C., and G. A. Gimber, to United States of America, Navy. Condition selector apparatus. 3,213,409, 10-19-65, Cl. 340-2.
- Bailey, Peter J., B. D. Baines, and H. K. Lindstaedt, to Nuclear Chemical Plant Ltd. Conveyor systems. 3,224,562, 12-21-65, Cl. 198-131.
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- Bailey, William D., to Textron Inc. Method of producing shouldered sleeves and similar articles. 3,167,859, 2-2-65, Cl. 29-539.
- Bailey, William H., to Davy and United Engineering Co. Ltd. Strip tensioning device. 3,206,961, 9-21-65, Cl. 72-18.

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- Bajars, Laimonis, to Petro-Tex Chemical Corp. Dehydrogenation. 3,207,808, 9-21-65, Cl. 260-680.
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- Baker, Arthur F., to Amsted Industries Inc. Rotary railway car coupler structure. 3,220,563, 11-30-65, Cl. 213-62.
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- Baker, Chester L., and J. F. Austin, to Philadelphia Quartz Co. Finely divided silica product and its method of preparation. 3,208,823, 9-22-65, Cl. 23-182.
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- Baker, Donald C., and W. E. Budd, to J. I. Case Co. Track chain. 3,169,039, 2-9-65, Cl. 305-58.
- Baker, Donald H., J. W. Colton, and D. R. Kuelbs, to Sperry Rand Corp. Flux valve compensator. 3,188,749, 6-15-65, Cl. 33-224.
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- Baker, Joseph W., to Monsanto Co. Alkyl and haloalkyl halophenyl carbonates. 3,215,723, 11-2-65, Cl. 260-463.
- Baker, Joseph W., to Monsanto Co. Halophenyl bis-carbonates. 3,218,347, 11-16-65, Cl. 260-463.
- Baker, Joseph W., and R. E. Stenseth, to Monsanto Co. Haloalkyl tetrahalophenyl carbonates. 3,218,346, 11-16-65, Cl. 260-463.
- Baker, Lawrence K., and T. E. Magill, to Western Electric Co., Inc. Non-injecting, ohmic contact for semiconductor devices. 3,198,999, 8-3-65, Cl. 317-234.
- Baker, Leonard M., and W. L. Carrick, to Union Carbide Corp. Oxidative cleavage of olefinic double bonds. 3,201,476, 8-17-65, Cl. 260-597.
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- Baker, Meredith H., C. D. Thomason, and J. A. Bullard. Submergible swimming pool change room. 3,212,105, 10-19-65, Cl. 4-1.
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- Baker, Paul E., S. B. Jones, and D. O. Seever, to California Research Corp. Nuclear precession well logging apparatus. 3,213,354, 10-19-65, Cl. 324-5.
- Baker Perkins Granbull Ltd.: See—
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- Baker, Peter N., deceased, by R. Baker, administrator, to The British Iron and Steel Research Assn. Indicators. 3,192,751, 7-6-65, Cl. 72-35.
- Baker, Peter N., deceased (by R. Baker, administrator), to The British Iron and Steel Research Association. Forging. 3,197,863, 8-3-65, Cl. 72-11.
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- Baker, Ralph C., to The Sheffield Corp. Pressure differential gage. 3,169,402, 2-16-65, Cl. 73-407.
- Baker, Ray D., to R. F. Blackett. Assembly tool. 3,206,842, 9-21-65, Cl. 29-203.
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- Baker Research and Development Corp.: See—
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- Baker, Richard H. Device for measuring accelerations and decelerations. 3,218,870, 11-23-65, Cl. 73-492.
- Baker, Richard S., to North American Aviation, Inc. Electromagnetic pump. 3,187,672, 6-8-65, Cl. 103-1.
- Baker, Richard S., to North American Aviation, Inc. Electromagnetic pump system. 3,196,795, 7-27-65, Cl. 103-1.
- Baker, Robert A.: See—
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- Baker, Robert H., to Westinghouse Electric Corp. Phase shift circuit. 3,210,640, 10-5-65, Cl. 321-40.
- Baker, Robert O., to Havaca, Inc. Automatic valve and clutch arrangement. 3,190,073, 6-22-65, Cl. 60-52.
- Baker, Robert S. Jack. 3,176,962, 4-6-65, Cl. 254-67.
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- Baker, Ronald, and I. D. Rattee, to Imperial Chemical Industries Ltd. Reactive naphthol monoazo dyestuffs. 3,225,027, 12-21-65, Cl. 260-194.
- Baker, Stephen C., to Su-Ev, Inc. Beverage dispenser. 3,191,402, 6-29-65, Cl. 62-399.
- Baker, Thomas R., and W. E. Cartwright, to Bradford Speed Packaging and Development Corp. Blank feeders for box forming machines. 3,176,978, 4-8-65, Cl. 271-6.
- Baker, Thomas R., and C. J. Pierce, Jr., to Bradford Speed Packaging and Development Corp. Drive mechanism for the plunger of a plunger-and-die type folding box machine. 3,186,244, 6-1-65, Cl. 74-103.
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- Baker, Vance A., 60% to C. H. Baker. Recoil friction brake for automatic firearms. 3,171,326, 3-2-65, Cl. 89-177.
- Baker, Walter S., to United States of America, Army. Solvent process for preparing epoxy-base propellants. 3,184,352, 5-18-65, Cl. 149-18.
- Baker, William A., D. A. Shoemack, and R. H. Richens, to Bristol Aeroplane Plastics Ltd. Apparatus for helical winding of a plurality of threads. 3,201,298, 8-17-65, Cl. 156-431.
- Baker, William E., to Standard-Thomson Corp. Actuator apparatus. 3,183,720, 5-18-65, Cl. 73-368.3.
- Baker, William E., to Baker Research and Development Corp. Thermal actuators. 3,194,008, 7-18-65, Cl. 60-23.
- Baker, William H., to Big Drum, Inc. Process for maintaining the crispness in a pastry product filled with a frozen confection. 3,186,852, 6-1-65, Cl. 99-136.
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- Baker, William O., to Swinquip, Inc. Automatic spin filter. 3,187,898, 6-9-65, Cl. 210-331.
- Baker, William P., Jr., to E. I. du Pont de Nemours and Co. Thermoplastic copolymer of vinyl monomer and cyanate monomer. 3,225,119, 12-21-65, Cl. 260-874.
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- Baker, William R., K. Halbach, and R. W. Layman, to United States of America, Atomic Energy Commission. Plasma propulsion device having special magnetic field. 3,191,092, 6-22-65, Cl. 315-111.
- Baker, William R., and D. E. Kullgren, to Paragon Bridge & Steel Co. Apparatus for shipping vehicles. 3,221,669, 12-7-65, Cl. 105-368.
- Baker, Willis L., to Plastiwall, Inc. Method for painting an embossed pattern on a sheet of material. 3,207,617, 9-21-65, Cl. 117-9.
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- Bakish, Robert, I. Marinow, and C. A. Gellar, to The Alloy Corp. Vapor deposition. 3,190,262, 6-22-65, Cl. 118-48.
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- Bakke, Bjorn K., to A. Knag A/S. Wall structures. 3,206,901, 9-21-65, Cl. 52-235.
- Bakke, Laurence D., to Continental Motors Corp. Low fluid level cut-off switch. 3,211,856, 10-12-65, Cl. 200-84.
- Bakker, Harm L., to North American Philips Co., Inc. Over-voltage protection circuit. 3,181,033, 4-27-65, Cl. 317-61.
- Bakker, Martinus A. M., and B. Visser, to North American Philips Co., Inc. Method of applying a layer consisting of an alloy to a support. 3,172,829, 8-9-65, Cl. 204-35.
- Bakker, Martinus A. M., and J. C. Duran, to North American Philips Co., Inc. Platinum coated molybdenum grid having an intermediate layer of nickel. 3,200,284, 8-10-65, Cl. 313-348.
- Bakker, Martinus A. M., and A. Van Vulpen, to North American Philips Co., Inc. Semi-conductor devices and methods for their manufacture. 3,225,273, 12-21-65, Cl. 317-237.
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- Bakos, Nikolaus, to Heinrich Nickel G.m.b.H. Air conditioner arrangement. 3,221,512, 12-7-65, Cl. 62-281.
- Bakshi, Jogindra M., to Burroughs Corp. Plural channel recording system. 3,199,094, 8-3-65, Cl. 340-174.1.
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- Balaguer, Rodolfo R., to J. D. Hedges and Co. Ltd. Motorized fishing reel. 3,195,830, 7-20-65, Cl. 242-84.21.
- Balaguer, Rodolfo R., to J. D. Hedges and Co. Ltd. Partnership. Carbon mix and method of forming same. 3,196,025, 7-20-65, Cl. 106-284.

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Balamuth, Lewis, and A. Kuris, to Cavitron Ultrasonics Inc. Method of joining thermoplastic sheet material by ultrasonic vibrations. 3,224,915, 12-21-65, Cl. 156-73.

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Staat, Robert A. and A. A. 3,190,309.

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Balch, Joseph C. Soil refrigerating system. 3,220,470, 11-30-65, Cl. 165-40.

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Baldauf, Gerard A., and M. J. Elkind, to Bell Telephone Laboratories, Inc. Barium oxide moisture getter preparation. 3,214,381, 10-26-65, Cl. 252-181.7.

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Baldi, Frank L. Funnel structure for introducing antifreeze to radiators. 3,177,907, 4-13-65, Cl. 141-300.

Baldine, Joseph J. Motor vehicle litter disposal. 3,202,118, 8-24-65, Cl. 110-18.

Baldinelli, Fred A., 35% to A. Galluccio, and 10% to R. Shelzi. Door knob contained electric signal structure. 3,168,730, 2-2-65, Cl. 340-392.

Balding, George H., to Kaiser Aerospace & Electronics Corp. Visual cue generator. Re. 25,756, 4-8-65, Cl. 343-11.

Balding, George H., to United States of America, Navy. Apparatus for displaying relatively displaceable superposed simulative patterns. 3,170,978, 2-23-65, Cl. 35-10.4.

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Balding, George H., to Kaiser Aerospace & Electronics Corp. Information storage and conversion apparatus. 3,218,637, 11-16-65, Cl. 343-6.

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Baldock, Kenneth W. H., to Trailmobile Inc. Fixed or variable wheel-base tandem axle mechanical suspensions having hydraulic load-equalizer means for semi-trailers. 3,195,917, 7-20-65, Cl. 280-104.5.

Baldt Anchor, Chain & Forge Division of Boston Metals Co., The: See—

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Luebke, Clifford B. 3,164,795.

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Meyer, Albert. 3,193,609.

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Baldwin, Douglas, Jr., to Shell Oil Co. Sulfide treatment of reforming catalyst. 3,224,962, 12-21-65, Cl. 208-138.

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Gegenheimer, Harold W., Stad, and Tobias. 3,223,294.

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Baldwin, Howard A., to Arizona Research Foundation, Inc. Fluid energy system. 3,173,372, 3-16-65, Cl. 103-44.

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Baldwin, John A., Jr., and H. F. May, to Bell Telephone Laboratories, Inc. Monitoring gate circuit. 3,175,042, 3-23-65, Cl. 179-18.

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Baldwin, John E., to United States of America, Navy. Method of casting a foam-cored rocket propellant grain. 3,196,735, 7-27-65, Cl. 86-1.

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Balent, Ralph, and R. J. Beeley, to North American Aviation, Inc. Epithermal thorium power-breeder nuclear reactor. 3,197,376, 7-27-65, Cl. 176-18.

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Balevsky, Angel T., and I. D. Nikolov, to Balgarska Akademia Na Naukite. Apparatus and method for metal casting. 3,196,501, 7-27-65, Cl. 22-68.

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Balgley, Ely, to Tenneco Chemical Inc. Heat hardened pentaerythritol-acrolein rocket propellant grains and their production. 3,218,206, 11-16-65, Cl. 149-19.

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Ball, Earl J., H. A. Cantor, T. M. Guastavino, and J. W. Wyart, to Celanese Corp. of America. Process of coating oxymethylene copolymer surfaces. 3,210,210, 10-5-65, Cl. 117-138.8.

Ball, Edmund H., to Pirelli General Cable Works Ltd. Temperature indicating means for electric cables and different sections thereof. 3,187,080, 6-1-65, Cl. 174-11.

Ball, Eldon W., to Raytheon Co. Antenna intersecting-orthogonal-axes gimbal mount utilizing rotary bearings for two axes and push-pull linkage for third axis. 3,166,750, 1-19-65, Cl. 343-705.

Ball, Frank J., J. B. Doughty, and W. G. Vardell, to West Virginia Pulp and Paper Co. Composition containing resin and lignin in free acid form and process for preparing same. 3,185,654, 5-25-65, Cl. 260-17.5.

Ball, Frank J., M. S. Dimitri, and R. Schmut. Precipitated lignin and products containing same and the production thereof. 3,223,697, 12-14-65, Cl. 260-124.

Ball, Frank W., to General Motors Corp. Stud type rocker arm mounting. 3,198,183, 8-3-65, Cl. 123-90.

Ball, Fred, to Pld Corp. Ribbed cover plate for coating application cylinder. 3,206,353, 9-14-65, Cl. 161-123.

Ball, Gary E., to North American Aviation, Inc. Signal translating circuit for providing isolation between D.C. source and load. 3,197,690, 7-27-65, Cl. 320-1.

Ball, John D., and C. J. Charske, to Esso Production Research Co. Remote line-voltage monitor using the charge on a capacitor to indicate the remote voltage. 3,221,254, 11-30-65, Cl. 324-111.

Ball, Thomas M., to Chrysler Corp. Return flow carburetor. 3,165,561, 1-12-65, Cl. 261-27.

Ball, Thomas M., to Chrysler Corp. Automatic choke for carburetor. 3,190,623, 6-22-65, Cl. 261-39.

Ball, Thomas M., to Chrysler Corp. Return flow carburetor. 3,202,403, 8-24-65, Cl. 261-36.

Ball, Thomas M., to Chrysler Corp. Return flow carburetor. 3,223,392, 12-14-65, Cl. 261-27.

Ballal, Ruth J. Plant support. 3,188,771, 6-15-65, Cl. 47-47.

Ballam, Joseph, and E. L. Chu, to United States of America, Atomic Energy Commission. Magnetic momentum analyzing slit with current conducting strips secured to the magnetic poles. 3,201,585, 8-17-65, Cl. 250-41.9.

Ballam, Wallace C. Constant velocity governor for hydraulic pipe line dredges. 3,180,040, 4-27-65, Cl. 37-59.

Ballantyne, Earnest R., to Wayne Chemical Co. Floor cleaning device. 3,178,756, 4-20-65, Cl. 15-526.

Ballantyne Instruments and Electronics, Inc.: See—

Nelson, Edward J. 3,194,662.

Poole, Gean, and Hoff. 3,226,000.

Ballard, Alfred G., to G.K.N. Screws & Fasteners Ltd. Internally threaded insert with rotation preventing means. 3,194,107, 7-18-65, Cl. 85-85.

Ballard, Amos D., to General Electric Co. Hollow power transmission members. 3,194,083, 7-13-65, Cl. 74-431.

Ballard, Arthur H.: See—

Smith, Blanchard D., Jr., and Ballard. 3,170,155.

Ballard, Arthur H., to Melpar, Inc. Multi-dimension parity check system. 3,200,374, 8-10-65, Cl. 340-146.1.

Ballard, Arthur H., and B. R. Boymel. Orthogonal polynomial multiplex transmission systems. 3,204,034, 8-31-65, Cl. 179-15.

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Ballard, Clark A. Vehicle back-up alarm device. 3,214,731, 10-26-65, Cl. 340-70.

Ballard, Earcy L. Fly trap. 3,224,145, 12-21-65, Cl. 47-38.1.

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Ballard, John H., and J. E. Hines, Jr., to Union Oil Co. of California. Vapor-liquid distribution method and apparatus for the conversion of hydrocarbons. 3,218,249, 11-16-65, Cl. 208-108.

Ballard, Lyttleton W. Transistor frequency multiplier employing diode protected transistor and tuned circuit. 3,188,496, 6-8-65, Cl. 307-88.5.

Ballard, Lyttleton W. Alternator current and voltage control. 3,217,229, 11-9-65, Cl. 320-68.

Ballard, Reginald L., to The Berkshire Printing Co. Ltd. Web tensioning mechanism. 3,210,247, 11-23-65, Cl. 226-195.

Ballard, Thomas V.: See—

Gates, John S., Ballard, and Noyes. 3,215,397.

Ballard, William E.: See—

Moran, Stephen F., and Ballard. 3,182,115.

Ballass, John T., and B. J. Freedman, to General Dynamics Corp. Welding flux. 3,192,076, 6-29-65, Cl. 148-26.

Ballass, John T., and B. J. Freedman, to General Dynamics Corp. Welding flux. 3,192,077, 6-29-65, Cl. 148-26.

Ballast, Donald E., and J. D. Griffin, to The Dow Chemical Co. Method of foaming a thermoplastic organic polymer containing a nucleating agent and an organic bromide. 3,188,295, 6-8-65, Cl. 260-2.5.

Ballentine, Earle W. Triboelectric generator for ionizing air. 3,201,620, 8-17-65, Cl. 310-7.

Ballato, Arthur D., and R. Bechmann, to United States of America, Army. Piezoelectric crystal element. 3,202,846, 8-24-65, Cl. 310-9.7.

Ballaue, Alb C., to R. J. Enstrom Corp. Helicopter rotor system having elastomeric bearings. 3,200,887, 8-17-65, Cl. 170-160.25.

Ballauf, Albert, W. Blank, D. Glabisch, and M. Wandel, to Farbenfabriken Bayer Aktiengesellschaft. Organic ammonium sulfite ester compounds and method of preparation. 3,168,546, 2-2-65, Cl. 260-456.

Ballester, Claudio J.: See—

Krupivk, Walter J., Hoffman, and Ballester. 3,182,514.

Ballestra, Mario. Method for carrying out continuously the stoichiometric neutralization of a sulphonic acid. 3,180,699, 4-27-65, Cl. 23-1.

Ballestra, Mario. Method and apparatus for effecting sulfonation. 3,198,849, 8-3-65, Cl. 260-686.

Ballestra, Mario. Apparatus for continuous control of the degree of a reaction between two fluid reagents in which each of the reagents has a specific gravity different from the specific gravity of the reaction product. 3,217,729, 11-16-65, Cl. 137-91.

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Ballin, Gene. Infant feeding container and cap assembly. 3,219,221, 11-23-65, Cl. 215-11.

Balling, John G., to Honeywell Inc. Atmospheric density responsive apparatus. 3,171,962, 3-2-65, Cl. 250-83.3.

- Ballinger, Peter, to California Research Corp. Acetylenic lead compounds and gasoline compositions thereof. 3,185,553, 5-25-65, Cl. 44-69.
- Ballinger, Peter, to California Research Corp. Preparation of trimethyl lead acetylides. 3,206,490, 9-14-65, Cl. 260-437.
- Ballmer, James E., and D. M. Redden, to Bausch & Lomb Inc. Optical instrument with microscope unit and nested tubes for viewing objects in closed chamber. 3,202,048, 8-24-65, Cl. 88-39.
- Ballmer, James E., T. W. Bracken, and G. J. Sheldon, to Bausch & Lomb Inc. Fiber bundle manufacturing. 3,205,738, 9-14-65, Cl. 83-13.
- Ballo, Joseph J.: See—
- Winchell, Frederic M. 3,186,693.
- Ballou, Donald K., and J. C. Hendelman, to United Aircraft Corp. Continuous oxide plugging indicator. 3,200,637, 8-17-65, Cl. 73-61.
- Ballou, Edward V., and R. T. Barth, to Gulf Research & Development Co. Method and apparatus for determining surface neutralizability of solid materials. 3,222,133, 12-7-65, Cl. 23-230.
- Ballou, Harry G., to Superior Concrete Accessories, Inc. Dual anchoring insert for a concrete slab. 3,181,276, 5-4-65, Cl. 50-82.
- Ballou, Harry G., to Superior Concrete Accessories, Inc. Dual lag screw anchoring insert for a concrete slab. 3,195,278, 7-20-65, Cl. 50-472.
- Ballou, Richard P., to General Motors Corp. Liquid reserve systems. 3,221,800, 12-7-65, Cl. 158-46.5.
- Ballu, Vincent P. M. Pump assembly. 3,172,369, 3-9-65, Cl. 103-175.
- Balluff, Helmut, to Siebelwerke-ATG G.m.b.H. Method and apparatus for propulsion and directional control of winged aircraft. 3,166,273, 1-19-65, Cl. 244-52.
- Balmer, Clifford E., C. A. Brown, M. D. Hurwitz, and J. E. Masterson, to Rohm & Haas Co. Vinyl chloride resins plasticized with copolymers of ethylene and an acrylate. 3,224,996, 12-21-65, Cl. 260-318.
- Balogh, Andrew M., to J. A. Balogh. Vapor additive carburetor attachment. 3,174,472, 3-23-65, Cl. 123-198.
- Balogh, John A.: See—
- Balogh, Andrew M. 3,174,472.
- Balogh, Stephen, and R. M. Wilber, to Parker-Hannifin Corp. Ceramic block filter drier. 3,170,872, 2-23-65, Cl. 210-266.
- Balogh, Stephen, to Parker-Hannifin Corp. Filter dryer unit for cleaning sealed refrigerating systems after motor burn-outs. 3,175,342, 3-30-65, Cl. 55-318.
- Balogh, Stephen, to Parker-Hannifin Corp. Bi-directional filter dryer for reverse cycle heat pumps. 3,178,022, 4-13-65, Cl. 210-136.
- Bals, Edward J., to Birtfield Engineering Ltd. Spraying equipment. 3,221,993, 12-7-65, Cl. 239-77.
- Balston, W. R., Ltd.: See—
- Knight, Colin S. 3,226,380.
- Baltazzi, Evan, and E. Willp, to Nalco Chemical Co. Process for the halogenation of leonardite and the product thereof. 3,173,946, 3-16-65, Cl. 260-515.
- Baltazzi, Evan, and E. Willp, to Nalco Chemical Co. Soluble sulfonated leonardite and preparation thereof. 3,174,998, 3-23-65, Cl. 260-507.
- Baltensperger, Paul, to Brown, Boveri & Cie. Aktiengesellschaft. Power switch with magnetic blow-out chamber and an adjacent arc chamber having spring-mounted walls within which the switch contacts are located. 3,185,801, 5-25-65, Cl. 200-147.
- Baltensperger, Paul, to Brown, Boveri & Cie. Aktiengesellschaft. Load switch with parallel connected capacitors. 3,192,440, 6-29-65, Cl. 317-11.
- Balthazor, Bernard E., to Buddy Corp. Simulated flat tired vehicle. 3,201,897, 8-24-65, Cl. 46-202.
- Balthes Farm Equipment Mfg. Ltd.: See—
- Balthes, John. 3,217,823.
- Balthes, John, to Balthes Farm Equipment Mfg. Ltd. Agricultural machine for carrying workers. 3,217,823, 11-16-65, Cl. 180-27.
- Baltimore Alrcoll Co., Inc.: See—
- Engalitcher, John, Jr., and Facius. 3,169,575.
- Facius, Thomas F. 3,198,441.
- Baltimore Box Co.: See—
- Stegner, Douglass M. 3,206,095.
- Stegner, Douglass M. 3,217,964.
- Baltimore Business Forms, Inc.: See—
- Grisso, Paul W. 3,179,441.
- Baltimore Spice Co., The: See—
- Meusel, Jerome A. 3,186,853.
- Balut, Ralph: See—
- Balut, Stephen. 3,194,277.
- Balut, Raymond R.: See—
- Balut, Stephen. 3,194,277.
- Balut, Stephen, 1/2 to R. and R. Balut. Thread feed control for shuttles. 3,194,277, 7-13-65, Cl. 139-213.
- Balutau, Jean-Michel, to Societe d'Optique et de Mecanique de Haute Precision. Camera focusing device for use with photographic and cinematographic cameras. 3,195,432, 7-20-65, Cl. 95-42.
- Balz, Louis A. Ice drill sharpener. 3,191,351, 6-29-65, Cl. 51-358.
- Balzer and Droll, Schnitt- und Werkzeugbau: See—
- Droll, Hans, and Muskulus. 3,226,046.
- Balzer, Vernon W. Reciprocating machinery. 8,212,483, 10-19-65, Cl. 123-41.84.
- Bamber, Alwin H.: See—
- Harrison, Robert H. C., and Bamber. 3,205,771.
- Bamberger, James F., and C. E. Harper, to Electro Products Laboratories, Inc. Bistable control devices controlling gates to effect machine control. 3,204,114, 8-31-65, Cl. 307-88.5.
- Bamberger, Julien G., to Masco Corp. Catamaran type boats. Re. 25,816, 7-6-65, Cl. 114-62.
- Bambra, Allan, to National Gypsum Co. Carton opening device. 3,165,033, 1-12-65, Cl. 93-36.
- Bambury, Ronald E.: See—
- Wood, Irwin R., Bambury, and Berger. 3,179,559.
- Bambury, Ronald E., and M. Sewierski, to American Cyanamid Co. N-benzoylation of adenine. 3,213,095, 10-19-65, Cl. 260-252.
- Bamford, Donald G., to Massey-Ferguson Inc. Vehicle cowl-ing and hood construction. 3,207,250, 9-21-65, Cl. 180-68.
- Bamford, J. C., (Excavators) Ltd.: See—
- Bamford, Joseph C. 3,193,110.
- Bamford, Joseph C., to J. C. Bamford (Excavators) Ltd. Earth moving implements. 3,193,110, 7-6-65, Cl. 212-145.
- Bamford, Robert M.: See—
- Webb, James E. 3,169,613.
- Bamford, William R., to Imperial Chemical Industries Ltd. Preparation of polymers containing silicon, oxygen, and aluminum atoms. 3,186,966, 6-1-65, Cl. 260-46.5.
- Bamford, William R., to Imperial Chemical Industries Ltd. Polymeric materials from the reaction of alkali metal aluminate with an aromatic silicon halide. 3,193,514, 7-6-65, Cl. 260-2.
- Bamford, William R., to Imperial Chemical Industries Ltd. Process for preparing polymers containing aluminum, oxygen and silicon in the polymeric chain. 3,219,594, 11-23-65, Cl. 260-2.
- Ban, Thomas E.: See—
- McDowell, Robert C., and Ban. 3,169,289.
- Ban, Thomas E., to McDowell-Wellman Engineering Co. Apparatus for the production of combustible gases from solid carbonaceous materials. 3,226,212, 12-28-65, Cl. 48-63.
- Banal, Michel: See—
- Delaruelle, Jacques, and Banal. 3,181,182.
- Banaszak, Stephen M., and E. A. Dvorak. Paint can protective attachment. 3,221,955, 12-7-65, Cl. 222-570.
- Banbury Equipment Corp.: See—
- Warfel, Richard M. 3,183,032.
- Banca, Maggio C.: See—
- Barnes, Robert B., Banca, and Engborg. 3,169,189.
- Bancellin, Robert V. Charge for solid propellant rocket. 3,201,936, 8-24-65, Cl. 60-35.6.
- Bancroft Cap Co.: See—
- Weinstein, Bernard. 3,164,842.
- Bancroft, Charles. Helicopter mechanism. 3,188,884, 6-15-65, Cl. 74-665.
- Bancroft, Charles. Automatic transmission. 3,215,004, 11-2-65, Cl. 74-766.
- Bancroft, Dennison, W. C. Elmore, J. B. Jones, and N. Maropis, to Aeroprojects, Inc. Apparatus and method for introducing high levels of vibratory energy to a work area. 3,166,840, 1-26-65, Cl. 29-470.
- Bancroft, Frank E.: See—
- Craig, Robert D., Willidig, and Bancroft. 3,187,179.
- Bancroft, Joseph, & Sons Co.: See—
- Duga, Robert J., and Sinski. 3,200,466.
- Hall, John N., and Cook. 3,208,125.
- Hushebeck, Henry R. 3,185,374.
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- Hushebeck, Henry R. 3,212,928.
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- Langway, Paul W., and Billings. 3,172,185.
- Bancroft, Norman R., to Pye Ltd. Control circuit for electromagnetic couplings. 3,173,041, 3-9-65, Cl. 310-95.
- Bancroft, Norman R., to Pye Ltd. Electrical systems for automatically controlling the speed of a body. 3,178,597, 4-13-65, Cl. 310-95.
- Bancroft, Norman R., to Pye Ltd. Speed control system. 3,181,017, 4-27-65, Cl. 310-95.
- Bancroft, Norman R., to Pye Ltd. Electric alternators including basket windings located in the air gap. 3,182,216, 5-4-65, Cl. 310-168.
- Bandel, Alberto: See—
- Bezzi, Silvio, Gallazzo, and Bandel. 3,226,368.
- Bandel, Gottfried: See—
- Braun, Oskar, Bandel, and Thelling. 3,165,507.
- Bandellin, Frederick J.: See—
- Sidenberg, Stanley S., and Bandellin. 3,198,700.
- Bander, Alfred: See—
- Ruschig, Heinrich, Aumüller, Korger, Wagner, Scholz, and Bander. 3,198,706.
- Bandini, Giuseppe. Vehicle for the cultivation of market produce, particularly for the picking of strawberries. 3,172,679, 3-9-65, Cl. 280-32.5.
- Band-it Co.: See—
- Lodholm, Valdemar, and Evans. 3,174,777.
- Banello, Raymond J., Jr. Waterproof covering for visored caps. 3,166,768, 1-26-65, Cl. 2-187.
- Banerjee, Tara, and I. C. Eddy, to General American Transportation Corp. Freight transportation systems. 3,220,359, 11-30-65, Cl. 105-366.

- Bang, Jens, to General Electric Co. Stereophonic reverberation circuit. 3,200,199, 8-10-65, Cl. 179-1.
- Bangert, Richard H., to The Bendix Corp. Crystal controlled oscillator with temperature compensation. 3,200,349, 8-10-65, Cl. 331-116.
- Bangora, Joseph J.: See—
- Black, Douglas E. 3,171,419.
- Banham, James W., Jr.: See—
- Valentine, William I., and Banham. 3,169,819.
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- Banister Construction (1963) Ltd.: See—
- Banister, Ronald K., Johanson, Burley, and Boyce. 3,198,501.
- Banister, Ronald K., O. J. Johanson, W. E. Burley, and J. J. Boyce, to Banister Construction (1963) Ltd. Apparatus for heating tubular metal goods. 3,198,501, 8-3-65, Cl. 263-38.
- Bank of America National Trust and Savings Association: See—
- Benson, Bernard S. 3,194,133.
- Benson, Bernard S., and Campbell. 3,218,910.
- Campbell, Rouel R., and Anguste. 3,183,810.
- Hearon, Guy H., and Campbell. 3,185,057.
- Bank of California NT & SA, The: See—
- Bolger, John G., Jr. 3,211,371.
- Bank of the Southwest National Association: See—
- McCollum, Burton. 3,182,743.
- Bankauf, William F.: See—
- Donadio, Vincent J., Bankauf, and Skinner. 3,182,788.
- Banke, Donald W. Cam-operated turning, boring and facing attachment for lathes. 3,212,371, 10-19-65, Cl. 82-19.
- Banke, Henry C.: See—
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- Banker, Oscar H. Fuel filter. 3,194,401, 7-13-65, Cl. 210-444.
- Banker, Oscar H. Selector valve. 3,223,122, 12-14-65, Cl. 137-625.4.
- Bankers Box Co.: See—
- Fellowes, John E. 3,217,372.
- Banker's Life & Casualty Co.: See—
- Potter, James M. 3,190,791.
- Bankers Trust Co.: See—
- Harrison, Stevens H. 3,168,619.
- Nyman, William F., Jr., Mason, Noonan, Niederauer, and Livingston. 3,183,770.
- Bankert, Willard E. Hydraulic liner for conduits. 3,175,571, 3-30-65, Cl. 137-111.
- Banko, Edward J., and F. P. Vultaggio, to L. J. Wing Mfg. Co., Division of Aero-Flow Dynamics, Inc. Air-flow control means. 3,174,422, 2-23-65, Cl. 98-40.
- Banks, Alberta L., and O. Banks, Jr. Chance controlled game apparatus. 3,170,697, 2-23-65, Cl. 273-135.
- Banks, Charles T., to Kimberly-Clark Corp. Transfer conveyor for a papermaking machine. 3,164,240, 1-5-65, Cl. 195-25.
- Banks, Charles T., to Kimberly-Clark Corp. Papermaking machine. 3,199,440, 8-10-65, Cl. 100-153.
- Banks, Derek F.: See—
- Phillips, Eric T. A., Banks, and Kirchel. 3,197,679.
- Banks, Harry H. Animal-run device. 3,203,399, 8-31-65, Cl. 119-120.
- Banks, John V., and R. F. Falge, to Kaiser Steel Corp. Beam welding apparatus. 3,164,713, 1-5-65, Cl. 219-124.
- Banks, Joseph E. Method of forming hollow concrete bodies. 3,192,292, 6-29-65, Cl. 264-32.
- Banks, Oliver, Jr.: See—
- Banks, Alberta L., and O. Banks, Jr. 3,170,697.
- Banks, Othniel N., to United Kingdom Atomic Energy Authority. Nuclear reactor core with fuel locking members. 3,164,530, 1-5-65, Cl. 176-87.
- Banks, Ronald E.: See—
- Haszeldine, Robert N., Banks, and Flowers. 3,180,842.
- Haszeldine, Robert N., Banks, and McCreath. 3,223,689.
- Banks, Ronald E., A. K. Barbour, C. R. Patrick, and J. C. Tatlow, to National Research Development Corp. Thermal isomerization of highly fluorinated-1:3 and 1:4-hexadienes. 3,197,612, 7-27-65, Cl. 260-648.
- Banks, Waldo H., to Draper Corp. Method and apparatus for loading bobbin magazines. 3,210,904, 10-12-65, Cl. 53-35.
- Banks, William B., to Automation Products, Inc. Apparatus for determining viscosity of materials. 3,177,705, 4-13-65, Cl. 73-54.
- Banks, William B., to Automation Products, Inc. Apparatus for measuring material level. 3,206,979, 9-21-65, Cl. 73-290.
- Banks, William F.: See—
- Weisner, Edward F., Churchill, and Banks. 3,186,913.
- Bankston, Lester T., to United States of America, Navy. Secondary fluid injection thrust vectoring methods and apparatus. 3,221,498, 12-7-65, Cl. 60-35.54.
- Banner, Joseph: See—
- Mock, Donald E., and Banner. 3,177,986.
- Banner Metals, Inc.: See—
- Wilson, James D. 3,219,232.
- Bannerman, Norman G., to British Insulated Callender's Cables Ltd. Method of attaching fittings to rods or tubes of resin-bonded fibre. 3,192,622, 7-6-65, Cl. 29-517.
- Banning, Thomas A., Jr. Multiple supply balanced valve, pressure reducing valves, and the like. 3,217,730, 11-16-65, Cl. 137-98.
- Banning, Thomas A., Jr. Instruments for controlling operations, to ensure optimum operating conditions of such operations. 3,221,759, 12-7-65, Cl. 137-18.
- Banning, Thomas A., Jr. Pre-pay or subscription radio or television operations. 3,222,462, 12-7-65, Cl. 178-5.2.
- Banning, Thomas A., Jr., and E. L. Ranseen, deceased (by A. J. Ranseen, executrix); said A. J. Ranseen, assor. to said Banning, as trustee. Wide band recording system. 3,164,685, 1-5-65, Cl. 179-100.11.
- Banning, Thomas A., Jr., and E. L. Ranseen, deceased (by A. J. Ranseen, executrix); said A. J. Ranseen assor. to said Banning. Magnetizable tape and the like, for signal carriers. 3,186,707, 6-1-65, Cl. 274-41.4.
- Banning, Thomas A., Jr., and E. L. Ranseen, deceased (by A. J. Ranseen, executrix); said A. J. Ranseen assor. to said Banning. Tape recording and translation, and the like. 3,221,336, 11-30-65, Cl. 346-74.
- Banning, Thomas A., Jr., and E. L. Ranseen, deceased (by A. J. Ranseen, executrix); said A. J. Ranseen, assor. to said Banning. Deflectable beam scanning units, and the like. 3,222,680, 12-7-65, Cl. 346-74.
- Bannister, Brian: See—
- Argoudelis, Alexander D., and Bannister. 3,203,986.
- Argoudelis, Alexander D., and Bannister. 3,207,780.
- Bannister, Brian, to The Upjohn Co. Process for 14 α -methyl-11-ketoprogesterone and intermediates therefor. 3,166,550, 1-19-65, Cl. 260-239.55.
- Bannister, Clyde E. Fluid motor. 3,183,787, 5-18-65, Cl. 91-266.
- Bannon, Thomas W.: See—
- Johansen, Einar K., and Bannon. 3,190,464.
- Banse, George, to National Mfg. Co. Display devices. 3,200,960, 8-17-65, Cl. 211-59.
- Banse, George, to National Mfg. Co. Livestock pen structures. 3,203,033, 8-31-65, Cl. 16-176.
- Banta, Paul R., and V. R. Fishing apparatus. 3,205,606, 9-14-65, Cl. 43-15.
- Banta, Vester R.: See—
- Banta, Paul R., and V. R. 3,205,606.
- Bantam Bearings Division, The Torrington Co.: See—
- Toth, Leo A. 3,180,016.
- Bantam Enterprises, Inc.: See—
- Pavlic, John G. 3,207,685.
- Banti, Giuseppe, to Compagnie de Saint-Gobain. Apparatus for surfacing glass. 3,200,541, 8-17-65, Cl. 51-112.
- Banyas, John D., to Owens-Illinois Glass Co. Article transfer apparatus. 3,175,702, 3-30-65, Cl. 214-1.
- Banzato, Candido. Fire protecting system. 3,179,181, 4-20-65, Cl. 169-13.
- Banzet, Christian, to General Motors Corp. Flexible door seal. 3,178,987, 4-27-65, Cl. 20-35.
- Bänziger, Ernst. Apparatus for producing whipped cream. 3,226,100, 12-28-65, Cl. 261-140.
- Bapseres, Pierre, and C. Nicolalde, to Societe Nationale des Petroles d'Aquitaine. Method for producing oximes. 3,185,732, 5-25-65, Cl. 260-566.
- Bapseres, Pierre, P. de la Bruniere, B. Andouze, and C. Nicolalde, to Societe Nationale des Petroles d'Aquitaine. Method for the preparation of alkyl mercaptans. 3,207,793, 9-21-65, Cl. 260-609.
- Baptist, James N., to W. R. Grace & Co. Purification of gas with soil microorganisms. 3,216,905, 11-9-65, Cl. 195-2.
- Baptist, James N., and F. X. Werber, to W. R. Grace & Co. Plasticized poly-beta-hydroxy butyric acid and process. 3,182,036, 5-4-65, Cl. 260-32.4.
- Baptist, James N., and J. E. Ziegler, to W. R. Grace & Co. Method of making absorbable surgical sutures from poly beta hydroxy acids. 3,225,766, 12-28-65, Cl. 128-335.5.
- Baptist, James N., P. R. Steyermark, and P. L. Veltman, to W. R. Grace & Co. Microbiocides in hydrocarbon fuel compositions. 3,226,210, 12-28-65, Cl. 44-66.
- Bar, Meyer, to North American Aviation, Inc. Correlation pattern recognition apparatus. 3,217,295, 11-9-65, Cl. 340-164.3.
- Bar, Rudolf. Multiple-stage steam turbine. 3,202,399, 8-24-65, Cl. 253-86.
- Barabutes, Theodore, to Westinghouse Electric Corp. Shock-resistant structure. 3,195,016, 7-13-65, Cl. 817-99.
- Barabutes, Theodore, and E. E. Lenchau, to Westinghouse Electric Corp. Hall-effect devices utilizing transformer phase control means. 3,189,815, 6-15-65, Cl. 323-120.
- Barach, Alvan L. Gas tubed furniture apparatus for administering inhalation therapy. 3,176,887, 4-6-65, Cl. 128-203.
- Barackert, Albert J., to Diamond Power Specialty Corp. Derivation of twice line frequency from sub-carrier generator. 3,170,036, 2-16-65, Cl. 178-69.5.
- Barackert, Albert J., to Diamond Power Specialty Corp. Transistor-regulated power supply. 3,192,467, 6-29-65, Cl. 323-22.
- Barackert, Albert J., to Diamond Power Specialty Corp. Frequency divider employing receptacles having preset frequency ratio connections for standard frequency plug-in units. 3,202,837, 8-24-65, Cl. 307-88.6.
- Barackert, Albert J., to Diamond Power Specialty Corp. Light source of controllable intensity. 3,204,091, 8-31-65, Cl. 240-20.
- Baracos, Nick, and F. Rosky, to Ford Motor Co. Antiharshness independent front wheel suspension system. 3,181,885, 5-4-65, Cl. 280-124.

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- Barch, John J., and W. M. Kraft, to Heyden Newport Chemical Corp. Esters and compositions containing same. 3,223,637, 12-14-65, Cl. 252-56.
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- Barkan, Philip, and E. H. Bogert, to General Electric Co. Current-limiting electric circuit interrupter of the fluid blast type. 3,183,330, 5-11-65, Cl. 200-150.
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- Barker, Charles M., Jr. Contact lens accessory. 3,178,016, 4-13-65, Cl. 206-5.
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- Barker, Lyle M., to Phelps Dodge Corp. Recovery of mineral values from ore. 3,168,396, 2-2-65, Cl. 75-108.
- Barker, Robert S., to Halcon International, Inc. Purification of glycerine. 3,198,843, 8-3-65, Cl. 260-637.
- Barker, Sydney W., to Nelvale Ltd. Thread treating machines. 3,174,312, 3-23-65, Cl. 68-176.
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- Barkhan, Marvin L., to Owens-Illinois Glass Co. Apparatus for spray coating glassware. 3,195,501, 7-20-65, Cl. 118-323.
- Barkhoff, Earl D., H. E. Childs, F. A. Schultz (and D. Streeter, to International Business Machines Corp. Computer controlled file protect. 3,199,091, 8-3-65, Cl. 340-174.1.
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- Barkocy, John L., to The Lamson & Sessions Co. Transfer mechanism with rotatable work engaging means. 3,217,343, 11-16-65, Cl. 10-166.
- Barkow, William H., to Radio Corp. of America. Beam penetration color cathode ray tube. 3,196,305, 7-20-65, Cl. 313-69.
- Barkow, William H., and C. C. Matthews, to Radio Corp. of America. Electromagnetic deflection yoke. 3,226,588, 12-28-65, Cl. 313-76.
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- Barksdale, Lilburn S., to General Metals Corp. Diaphragm type pressure switch with adjustable leaf spring mounting. 3,204,055, 8-31-65, Cl. 200-83.
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- Barletta, John. Casting for universal joints. 3,222,887, 12-14-65, Cl. 64-32.
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- Barlow, Cecil R., to Fuller Co. Hatch cover assembly. 3,183,874, 5-18-65, Cl. 114-202.
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- Barlow, Joseph S. Combustion control. 3,224,186, 12-21-65, Cl. 60-30.
- Barlow, Lester P., to The Barlow Vapor Cooling Co. Ebul-
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- Barlow, Nyle E. Tools for hotline hardware. 3,186,264, 6-1-65, Cl. 81-57.
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- Barnard, Earl H., to Schlumberger Well Surveying Corp. Electrically conductive concrete. 3,166,518, 1-19-65, Cl. 232-50.3.
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- Barnard, Mark C. S., and A. E. Martin, to The Rover Co. Rotary fuel pump of the kind including cam-operated pistons. 3,216,367, 11-9-65, Cl. 103-162.
- Barnard, Theodore P., to Miniature Precision Bearings, Inc. Bearing torque test instrument. 3,201,981, 8-24-65, Cl. 73-133.
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- Barnes, Floyd, Jr. Re-usable envelope. 3,171,582, 8-2-65, Cl. 229-77.
- Barnes, George H., and R. Samson, to Burroughs Corp. Core mounting. 3,214,744, 10-26-65, Cl. 340-174.
- Barnes, Harold N., to United-Carr Inc. Container. 3,211,503, 10-12-65, Cl. 312-31.2.
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- Barnes, John A., to Power Jets (Research & Development) Ltd. Supercharging reciprocating internal-combustion engines. 3,180,330, 4-27-65, Cl. 123-179.
- Barnes, John A., and J. P. Vickery, to Power Jets (Research & Development) Ltd. Pressure exchangers. 3,164,818, 1-5-65, Cl. 230-69.
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- Barnes, John V., to Ford Motor Co. Automatic brake adjuster. 3,181,655, 5-4-65, Cl. 188-79.5.
- Barnes, John V., to Ford Motor Co. Balanced shoe brake. 3,194,352, 7-13-65, Cl. 188-78.
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- Barnes, Lawrence V., Jr., to C. B. Reed, and to Waterman-Loomis Co. Artificial nest for wild bees. 3,191,199, 6-29-65, Cl. 6-11.
- Barnes, Lell E., to Curtiss-Wright Corp. Mechanical amplifier. 3,171,291, 3-2-65, Cl. 74-388.
- Barnes, Llewellyn T., to C. T. Barnes, and to J. F. Woog. Trimmer capacitor. 3,166,695, 1-19-65, Cl. 317-249.
- Barnes, Llewellyn T., to C. T. Barnes, and to J. F. Wong. Trimmer capacitor. 3,193,742, 7-6-65, Cl. 317-249.
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- Barnes, Marion W., to Universal Oil Products Co. Carbon monoxide burner apparatus. 3,194,215, 7-13-65, Cl. 122-255.
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- Barnes, Philip E., and R. N. Quenneville, to United Aircraft Corp. Pitch control system. 3,212,586, 10-19-65, Cl. 170-160.24.
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- Barnes, Robert B., M. C. Banca, and N. E. Engborg, to Barnes Engineering Co. Infrared thermograph. 3,169,189, 2-9-65, Cl. 250-83.3.
- Barnes, Robert B., and F. Schwarz, to Barnes Engineering Co. Hot box detector. 3,183,349, 5-11-65, Cl. 246-169.
- Barnes, Robert E., to Auto-Swage Products, Inc. Self-locking electrical plug connector. 3,173,740, 3-16-65, Cl. 339-217.
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- Barnes, Vincent H. Adjustable mounting hinge for screen printing frames. 3,203,030, 8-31-65, Cl. 16-129.
- Barnes, Walter V., to Shell Oil Co. Dry cleaning composition. 3,222,286, 12-7-65, Cl. 252-161.
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- Barnes, William M., and T. O. Yingst, to Universal Match Corp. Bottle vendor. 3,171,569, 3-2-65, Cl. 221-303.
- Barnese, Anthony. Screw-type conveyor with resilient bearing means. 3,194,385, 7-13-65, Cl. 198-64.
- Barnett, Alvin D. Take-off machines. 3,184,040, 5-18-65, Cl. 198-165.
- Barnett, Charles H., to The Foundry Equipment Co. Method for conditioning ingot mould molds and the like. 3,206,812, 9-21-65, Cl. 22-200.
- Barnett, David L., to General Electric Co. Air cooled electronic enclosure. 3,198,991, 8-3-65, Cl. 317-100.
- Barnett, Eugene J., to Westinghouse Electric Corp. Range. 3,194,945, 7-13-65, Cl. 219-446.
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- Barnett, Harry E. Combination cervical collar and traction apparatus. 3,189,026, 6-15-65, Cl. 128-75.
- Barnett, Leola T. Oil balanced shaft seal. 3,176,996, 4-6-65, Cl. 277-2.
- Barnett, Paul B., and L. H. Knop, to Aerojet-General Corp. Explosive edge-forming. 3,181,327, 5-4-65, Cl. 72-56.
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- Barney, Greenleaf H., to Leach & Garner Co. Jeweler's patterned wire. 3,165,825, 1-19-65, Cl. 29-411.
- Barney, Harold L., to Bell Telephone Laboratories, Inc. Duplicate-record indexing system. 3,193,626, 7-6-65, Cl. 179-100.4.
- Barney, Harold L., deceased (by S. E. Barney, executrix), to Bell Telephone Laboratories, Inc. Echo suppressor for circuit with long delay. 3,206,559, 9-14-65, Cl. 179-170.2.
- Barney, Kay H., and L. J. Graber, to Sperry Rand Corp. Automatic noise jamming multi-carrier F.M. system. 3,225,300, 12-21-65, Cl. 325-132.
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- Barney, Walter. Magnetically controlled circuit. 3,215,903, 11-2-65, Cl. 317-134.
- Barnhardt, Clyde S., Sr. Proximity surface still. 3,170,852, 2-23-65, Cl. 202-236.
- Barnhart, Carlton L. Bottled drink vending machine. 3,164,296, 1-5-65, Cl. 221-129.
- Barnhart, Carlton L. Coin collector. 3,182,781, 5-11-65, Cl. 194-9.
- Barnhart, Harry E.: See—
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- Barnsley, Geoffrey E., to Shell Oil Co. Method of increasing fruit yield. 3,210,175, 10-5-65, Cl. 71-2.5.
- Barnstead, Gardner E., D. F. Letosky, and D. E. Missett, to I-T-E Circuit Breaker Co. Adjustable riser duct floor support. 3,226,472, 12-28-65, Cl. 174-100.
- Barnum, Hewitt M., to Technicon Chromatography Corp. Apparatus and devices, especially for chromatography analysis. 3,220,248, 11-30-65, Cl. 73-53.
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- Baron, Bert and D., to Apex Automatic Devices Corp. Pleating machine. 3,204,837, 9-7-65, Cl. 223-34.

- Baron, David H. Hopping figure toy. 3,205,615, 9-14-65, Cl. 46-129.
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- Baron, Paul L., R. W. Hamaker, and A. T. Romeo, to International Business Machines Corp. Semiconductor device. 3,181,979, 5-4-65, Cl. 148-33.1.
- Baron, Paul L., U. Cocco, and R. W. Hamaker, to International Business Machines Corp. Tunnel diode and process therefor. 3,207,635, 9-21-65, Cl. 148-1.5.
- Baron, Robert C., and T. P. Bothwell, to Computer Control Co., Inc. Emitter follower amplifier. 3,172,051, 3-2-65, Cl. 330-17.
- Baron, Robert C., and G. J. Flynn, to Computer Control Co., Inc. Electronic switching device. 3,211,928, 10-12-65, Cl. 307-88.5.
- Baron, Robert R. Container closure means. 3,208,617, 9-28-65, Cl. 215-40.
- Baron, Ronald, to Somerville Industries Ltd. Plastic drinking cups. 3,194,468, 7-13-65, Cl. 229-1.5.
- Baron van Slingelandt, Jan A., to Scheepsbouwwerf Gebr. Pot, N.V. Trawler. 3,205,845, 9-14-65, Cl. 114-5.
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- Barosko, John M., to Walker Mfg. Co. Device for pumping and dispensing liquid with air. 3,210,011, 10-5-65, Cl. 239-41.2.
- Barosko, John M., and J. C. Krug, to Walker Mfg. Co. Dispensing mechanism. 3,182,867, 5-11-65, Cl. 222-48.6.
- Barotby, Charles F. Screw dowel. 3,178,984, 4-20-65, Cl. 83-637.
- Barotz, Peter, to P. G. Products Mfg. Co., Inc. Pump. 3,172,364, 3-9-65, Cl. 103-87.
- Barquero, Joaquin G. Compass. 3,214,835, 11-2-65, Cl. 23-27.
- Barr, Arthur C. Disposable infant feeding package. 3,194,424, 7-13-65, Cl. 215-11.
- Barr, Brian W. Fire protection devices for Christmas trees. 3,171,493, 3-2-65, Cl. 169-2.
- Barr, Bruce E. Safety locking device for pump type magazine firearms. 3,208,177, 9-28-65, Cl. 42-70.
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- Barr, Edward J., to McCulloch Corp. Charge forming device. 3,201,096, 8-17-65, Cl. 261-41.
- Barr, Ellis V., to Laughter Corp. Fluid driven and controlled tapping unit. 3,200,426, 8-17-65, Cl. 10-136.
- Barr, Frank T., and K. Cohen, to Esso Research and Engineering Co. Apparatus for producing heat and power by the application of nuclear fission. 3,205,138, 9-7-65, Cl. 176-18.
- Barr, Gaitskill S., to General Motors Corp. Cowl drain controller. 3,205,808, 9-14-65, Cl. 98-2.
- Barr, Harold N., to Martin-Marletta Corp. Method of making a fibrous fissionable member. 3,177,578, 4-13-65, Cl. 29-474.3.
- Barr, Harold N., to D. Peterson, to Martin-Marletta Corp. Liquid fluidized bed nuclear reactor and method for reducing particle abrasion therein. 3,202,581, 8-24-65, Cl. 176-46.
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- Barr, Irwin R., to United States of America, Army. Multi-package launcher. 3,225,654, 12-28-65, Cl. 89-1.5.
- Barr, James A., Jr., C. H. Greene, and C. G. Olsen, to Chemical Cleaning, Inc. Phosphate recovery apparatus. 3,202,365, 8-24-65, Cl. 241-42.
- Barr, James A., Jr., C. H. Greene, and C. G. Olsen, to W. R. Grace & Co. Phosphate recovery process. 3,204,877, 9-7-65, Cl. 241-1.
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- Barr, Thomas R., to United States Gypsum Co. Control joint for building construction. 3,192,577, 7-6-65, Cl. 20-92.
- Barr, Vernon L. Clamping sealing apparatus. 3,189,970, 6-22-65, Cl. 24-284.
- Barr, William H.: See—
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- Barr, William H. Calibrated air duct valve. 3,183,930, 5-18-65, Cl. 137-610.
- Barr, William L., and A. L. Gardner, to United States of America, Atomic Energy Commission. Angled plate scanning interferometer. 3,217,591, 11-16-65, Cl. 88-14.
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- Barradell-Smith, Richard, and F. W. Silverwood, to Pilkington Brothers Ltd. Manufacture of flat glass. 3,223,503, 12-14-65, Cl. 65-99.
- Barradell-Smith, Richard, and F. W. Silverwood, to Pilkington Brothers Ltd. Apparatus for the manufacture of flat glass. 3,223,509, 12-14-65, Cl. 65-182.
- Barrass, Robert, and G. M. Edge, to Pye Ltd. Automatic attenuation control diode circuit for operating a peak meter. 3,212,003, 10-12-65, Cl. 324-119.
- Barratt, Frederick H.: See—
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- Barreca, Henry J. Ski poles. 3,202,436, 8-24-65, Cl. 280-11.37.
- Barre, Salvatore E., to Muskin Mfg. Co., Inc. Sectional above ground swimming pool construction. 3,225,362, 12-28-65, Cl. 4-172.
- Barret, Jean P., to Institut Français du Pétrole, Carburants et Lubrifiants. Amplitude modulator. 3,215,953, 11-2-65, Cl. 332-44.
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- Barreto, Ernesto: See—
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- Barrett, Arthur L., J. H. Kelley, R. J. Wacht, and D. Wiebe, to Joy Mfg. Co. Gas and liquid contact method and apparatus. 3,173,771, 3-16-65, Cl. 55-92.
- Barrett, Arthur M., Jr., to Barrett Electronics Corp. Battery charging system for vehicles. 3,169,733, 2-16-65, Cl. 246-30.
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- Barrett, Charles W., to Republic Steel Corp. Rolling steel plate. 3,210,977, 10-12-65, Cl. 72-16.
- Barrett, David M., E. J. Bastin, C. R. Hehmeyer, and M. Hura, to Picker X-Ray Corp., Waite Mfg. Division, Inc. Spot filmer. 3,173,008, 3-9-65, Cl. 250-66.
- Barrett, David M., and M. Hura, to Picker X-Ray Corp., Waite Mfg. Division, Inc. Spot filmer with radiation shield. 3,173,009, 3-9-65, Cl. 250-86.
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- Barrett, Donald L., to The Goodyear Tire & Rubber Co. Airplane tire. 3,225,812, 12-28-65, Cl. 152-361.
- Barrett, Edward J. Expandable and collapsible container. 3,180,555, 4-27-65, Cl. 229-41.
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- Barrett, George F., to The Kamphausen Co. Tensioning device. 3,193,252, 7-6-65, Cl. 254-51.
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- Brown, George J., and Barrett. 3,201,735.
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- Barrett, James W. Safety device for water skis and the like. 3,212,113, 10-19-65, Cl. 9-310.
- Barrett, Lawrence D., N. E. Merrell, V. S. Mosinkla, and P. Ruttkay, to The Boeing Co. Blade folding mechanism. 3,187,818, 6-8-65, Cl. 170-180.12.
- Barrett, Maurice L., Jr., to Shell Oil Co. Proving flowmeters. 3,224,247, 12-21-65, Cl. 73-3.
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- Barrett, Robert L., to Western Electric Co., Inc. Fixture for clamping articles to a strip for subsequent bonding. 3,185,468, 5-25-65, Cl. 269-74.
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- Barrett, Wayne T., M. G. Sanchez, and M. C. Vanik, to W. R. Grace & Co. Sols of actinide metal oxides. 3,164,554, 1-5-65, Cl. 252-301.1.
- Barrett, William A., Jr., to Bell Telephone Laboratories, Inc. Magnetic analog-to-digital encoder. 3,187,324, 6-1-65, Cl. 340-347.
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- Barrett, William K., to Dynamics Corp. of America. Rug-gedized mount for low frequency crystals. 3,176,168, 3-30-65, Cl. 310-9.4.

- Barrick, James E., to Consolidated Electronics Industries Corp. Drive unit. 3,165,006, 1-12-65, Cl. 74-421.
- Barrick, James E., to Consolidated Electronics Industries Corp. Coil form assembly. 3,218,592, 11-16-65, Cl. 336-198.
- Barrick, James G. Shot gun shell. 3,205,819, 9-14-65, Cl. 102-12.
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- Barry, Leonard D. Automatic farming system. 3,186,493, 6-1-65, Cl. 172-26.
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- Bartell, Charles, to Johnson & Johnson. Process for producing a pressure-sensitive adhesive tape having a paper backing unified with an elastomeric polyurethane. 3,197,330, 7-27-65, Cl. 117-122.
- Bartels, Fred L., to Research Products Corp. Method of attaching frames to air filters and the like. 3,168,917, 2-9-65, Cl. 153-1.
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- Bartthel, Karl, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Successive interruption for letterpress printing machines. 3,191,529, 6-29-65, Cl. 101-184.
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- Barton, Derek H. R., to Research Institute for Medicine and Chemistry. 6,19-lactones of 4,5-dehydro-10-carboxy 68-hydroxy-3-oxo steroids and process for the preparation thereof. 3,210,343, 10-5-65, Cl. 260-239.57.
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- Barton, Raymond W., H. Heckel, P. Prickett, and E. G. Swenson, to Don Baxter, Inc. Air inlet filter for a parenteral solution container. 3,193,993, 7-13-65, Cl. 55-385.
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Webers, Heinz. 3,178,039.
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Bauder, Carl J., and R. G. Quick, Jr., to Cambridge Filter Corp. 3,187,489, 6-8-65, Cl. 55—499.
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Baudry, Rene A., to Westinghouse Electric Corp. Shaft bearing arrangement. 3,172,709, 3-9-65, Cl. 308—9.
Bauer, Albert W., to E. I. du Pont de Nemours and Co. Chlorofluoroalkane compositions. 3,183,192, 5-11-65, Cl. 252—188.3.
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Horstman, Anton J. 3,201,307.
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Shouylin, Joseph C., and Gnaven. 3,215,355.
Starrett, James R. 3,219,393.
Steiniger, Herman W., and Irvine. 3,166,260.
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Bauer, Charles L., to Sunbeam Corp. Universal plug connector. 3,204,213, 8-31-65, Cl. 339—31.
Bauer, Donald K.: See—
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Bauer, Donald R., J. D. Cassidy, H. W. Hance, and C. R. Mullen, to Kaiser Gypsum Co., Inc. Method and device for producing patterned-surface sheet material. 3,181,279, 5-4-65, Cl. 51—90.
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Dieter, Norman H., Jr., and Bauer. 3,177,300.
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Jayme, Georg, and Bauer. 3,201,352.
Bauer, Gordon L., to Advanced Wyrepak Co., Inc. Wire spooling apparatus and method. 3,170,650, 2-23-65, Cl. 242—25.
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Bauer, Helmut, to Maschinenfabrik Burckhardt A.G. Automatic system for fluidly holding the valve-carrying head on a piston-operated machine subjected to high pressures. 3,207,081, 9-21-65, Cl. 103—153.
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- Bauer, Herbert, to E. I. du Pont de Nemours and Co. Luminescent screen having a protective film. 3,164,719, 1-6-65, Cl. 250-80.
- Bauer, Howard M. Pressure regulator valve having damping means. 3,174,505, 3-23-65, Cl. 137-505.18.
- Bauer, Jordan V., and L. H. Elizer, to The Hubinger Co. Adhesive compositions. 3,182,031, 5-4-65, Cl. 260-17.3.
- Bauer, Josef. Overflow prevention device. 3,189,030, 6-15-65, Cl. 137-434.
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- Bauer, Konrad E., and H. R. Carlson, to Hupp Corp. Gas burners. 3,225,815, 12-28-65, Cl. 158-99.
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- Bauer, Kurt H.: See—
- Widmann, Arno, and Bauer. 3,197,369.
- Bauer, La Verne N., to Rohm & Haas Co. Dispersant copolymers from polyvinylpyrrolidone. 3,214,498, 10-26-65, Cl. 260-582.
- Bauer, La Verne N., and A. F. Preuss, to Rohm & Haas Co. Dispersant compositions. 3,218,258, 11-16-65, Cl. 252-51.5.
- Bauer, Ludwig, and W. Gruger, to International Standard Electric Corp. Cradle-switch spring assembly. 3,218,238, 11-16-65, Cl. 179-164.
- Bauer Mfg. Co., The: See—
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- Bauer, Matthew F. Coupling connection for plastic or soft tubing. 3,218,094, 11-16-65, Cl. 285-249.
- Bauer, Myron J., R. E. Carlsberg, and R. C. Wilson, to United States of America, Navy. Loader mechanism for guided missile launching system. 3,166,976, 1-26-65, Cl. 89-1.7.
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- Bauer, Oliver F., and A. W. Snook, to The Gleason Works. Quenching machine. 3,170,975, 2-23-65, Cl. 266-8.
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- Bauer, Peter, to Sperry Rand Corp. "And" gate. 3,191,611, 6-29-65, Cl. 137-81.5.
- Bauer, Peter, to Sperry Rand Corp. Fluid multi-stable device. 3,192,938, 7-6-65, Cl. 137-81.5.
- Bauer, Peter, to Sperry Rand Corp. Binary counter stages having two fluid vortex amplifiers. 3,193,197, 7-6-65, Cl. 235-201.
- Bauer, Peter, to Sperry Rand Corp. Fluid signal generator. 3,204,652, 9-7-65, Cl. 137-81.5.
- Bauer, Peter, to Sperry Rand Corp. Binary counter. 3,219,271, 11-23-65, Cl. 235-201.
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- Bauer, Richard M., G. W. Forney, and W. H. Osterlund, to American Can Co. Apparatus for producing highly glossy protective sheets. 3,192,893, 7-6-65, Cl. 118-69.
- Bauer, Robert D.: See—
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- Bauer, Robert D., to Phillips Petroleum Co. Hydrocarbon treating. 3,213,154, 10-19-65, Cl. 260-676.
- Bauer, Robert D., and J. Van Pool, to Phillips Petroleum Co. Alkylation of hydrocarbons by reducing organic fluoride content of a stream in the operation. 3,209,051, 9-28-65, Cl. 260-683.42.
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- Stratton, Hal, Bauer, Field, and Crooke. 3,221,506.
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- Bauer, Robert H.: See—
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- Bauer, Stefan G., to Rolls-Royce Ltd. Fuel elements for nuclear reactors. 3,220,927, 11-30-65, Cl. 176-76.
- Bauer, Stefan G., and N. Battle, to Rolls-Royce Ltd. Fuel elements for nuclear reactors. 3,192,621, 7-6-65, Cl. 29-510.
- Bauer, Walter T. Fireplace super heater. 3,190,282, 6-22-65, Cl. 126-131.
- Bauer, Werner: See—
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- Bauer, Werner R., to Robertshaw-Controls Co. Dial operated timer. 3,194,902, 7-13-65, Cl. 200-33.
- Bauer, Werner R., to Robertshaw Controls Co. Pressure switch with high and low pressure spring adjustments. 3,209,094, 9-28-65, Cl. 200-83.
- Bauer, Werner R., to Robertshaw-Controls Co. Electromagnetic relay with one-piece support for core and armature. 3,213,230, 10-19-65, Cl. 200-87.
- Bauer, Werner R., to Robertshaw Controls Co. Automatic program selecting controller. 3,217,188, 11-9-65, Cl. 307-141.4.
- Bauer, William V., to The Lummus Co. Evaporative process using submerged combustion. 3,216,189, 11-2-65, Cl. 159-16.
- Bauerlein, Carl C.: See—
- Miller, Donald E., and Bauerlein. 3,182,465.
- Bauerlein, Carl C., to The Dole Valve Co. Heating and cooling control valves. 3,179,337, 4-20-65, Cl. 236-1.
- Bauerlein, Carl C., to The Dole Valve Co. Automatic ice maker having a thermally sensitive power unit. 3,188,827, 6-15-65, Cl. 62-137.
- Bauerlein, Carl C., to The Dole Valve Co. Tapper keg valve. 3,195,855, 7-20-65, Cl. 251-120.
- Bauerlein, Carl C., to The Dove Valve Co. Pressure regulator. 3,217,947, 11-16-65, Cl. 222-397.
- Baueymester, Ernest E. Vertical casket. 3,188,712, 6-15-65, Cl. 127-6.
- Bauger, Louis J., and L. F. Jumelle, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Flight control and stabilization by hot jets, applicable in particular to aircraft taking off vertically without change of attitude. 3,176,463, 4-6-65, Cl. 60-35.54.
- Bauger, Louis J., M. J. Baraut, P. M. Phelipon, and A. J.-B. Lacroix, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Double flow jet-engines. 3,204,404, 9-7-65, Cl. 60-35.6.
- Baugh Chemical Co., The: See—
- Bowman, Robert S., and Dixon. 3,205,181.
- Baugh, Elbert R., and J. M. Lyons, to Kaiser Aluminum & Chemical Corp. Heat treatment and extrusion of aluminum alloy. 3,222,227, 12-7-65, Cl. 148-11.6.
- Baugh, Hollis A.: See—
- Slator, Damon T., and Baugh. 3,182,877.
- Baugh, John C., to The Central States Can Corp. Container manufacture. 3,179,282, 4-20-65, Cl. 220-54.
- Baugh, Richard A., and E. C. Day, to Radio Corp. of America. Apparatus for determining the algebraic sign of a residue coded number. 3,191,011, 6-22-65, Cl. 235-158.
- Baughman, George W., to Westinghouse Air Brake Co. Hot bearing detector. 3,197,632, 7-27-65, Cl. 246-169.
- Baughman, Howard B.: See—
- Keeling, Kermit B., Sr., and Baughman. 3,176,541.
- Baukhage, Ernest P.: See—
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- Baukhecht, G., G.m.b.H.: See—
- Dannemann, Paul. 3,207,373.
- Bault, William V.: See—
- Burford, Robert M., Bault, and O'Neill. 3,207,365.
- Baum, Bernard O., and L. G. Imhof, to Union Carbide Corp. Method for modifying olefin polymers, oxidized olefin polymers and olefin polymers containing carboxyl and hydroxyl groups with polymethylolated phenolic and peroxide cross-linking agents and products produced thereby. 3,211,804, 10-12-65, Cl. 260-848.
- Baum, Jerome N., and S. J. Campanella, to Melpar, Inc. Heart beat frequency analyzer. 3,171,406, 8-2-65, Cl. 128-2.05.
- Baum, Jerome N., and B. H. Dennison, Jr., to Melpar, Inc. Electrodes. 3,197,745, 6-8-65, Cl. 128-2.06.
- Baum, Kurt, to Kaiser Industries Corp. Recovery of combustible gases in ferro-metallurgical processes. 3,224,750, 12-21-65, Cl. 266-35.
- Baum, Leon. Optical system for machines. 3,221,577, 12-7-65, Cl. 82-12.
- Baum, Lloyd. Tooth filling material. 3,191,803, 6-29-65, Cl. 32-15.
- Baum, Morton S., and F. R. Moreo. Process for enhancing the palatability of meats. 3,215,534, 11-2-65, Cl. 99-107.
- Baum, Sidney J., and R. Aellon, to Foster Grant Co., Inc. Two stage vacuum devolatilization to purify polyamides. 3,177,181, 4-6-65, Cl. 260-78.
- Baum, Thomas: See—
- Childress, Scott J., and Baum. 3,164,602.
- Baum, Wesley L.: See—
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- Baum, William H., and J. Mosetich, to Fastener Corp. Fastener construction. 3,190,170, 6-22-65, Cl. 85-49.
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- Baum, William H., and J. Mosetich, to Fastener Corp. Fastener assembly. 3,212,632, 10-19-65, Cl. 206-56.
- Bauman, Jack L., and C. Boetto, to International Harvester Co. Implement hitch. 3,214,190, 10-26-65, Cl. 280-447.
- Bauman, Ralph M. Portable urine specimen collecting device. 3,177,500, 4-13-65, Cl. 4-110.
- Bauman, Richard D., to Sylvania Electric Products Inc. Variable pulse width generator controlled by varying of D.C. screen grid potential. 3,179,898, 4-20-65, Cl. 328-58.
- Bauman, Robert H.: See—
- Moyer, Elton S., and Bauman. 3,213,971.
- Bauman, Verne R.: See—
- Lindquist, James J., Sjoqvold, and Bauman. 3,177,699.
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- Baumann, Arthur N., to International Minerals & Chemical Corp. Precipitation of soluble P₂O₅ values from NH₄F solutions. 3,201,193, 8-17-65, Cl. 23-88.
- Baumann, Arthur N., to International Minerals & Chemical Corp. Process for the production of phosphate fertilizer. 3,212,874, 10-19-65, Cl. 71-34.
- Baumann, Dwight M., D. E. Hanson, and R. Shamie, to Metal Bellows Corp. Mechanical quantizer. 3,224,344, 12-21-65, Cl. 92-45.

- Baumann, Fritz: See—
- Klemm, Kurt, Baumann, and Bien. 3,167,557.
- Baumann, George P., to Esso Research and Engineering Co. Process of heating olefin feed to dehydrogenation process. 3,179,709, 4-20-65, Cl. 260-680.
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- Baumann, Gilbert M.: See—
- Gold, Allan R., and Baumann. 3,197,142.
- Baumann, Gustav, to Brown, Boveri & Cie., Aktiengesellschaft. Magneto-hydrodynamic installation with high temperature heat exchanger. 3,170,510, 2-23-65, Cl. 165-104.
- Baumann, Hans, and J. Dehnert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method for the production of cationic dyestuffs. 3,216,995, 11-9-65, Cl. 260-157.
- Baumann, Hans D., to Worthington Corp. Reversible pneumatic actuator. 3,168,011, 2-2-65, Cl. 92-59.
- Baumann, Hans D., to Worthington Corp. Pressure balanced valve having yieldable seating. 3,219,310, 11-23-65, Cl. 251-61.
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- Baumann, Michael F., and W. R. Lawton, to Nashua Corp. Heat sensitive copy and recording sheet. 3,166,433, 1-19-65, Cl. 117-36.8.
- Baumann, Michael F., W. R. Lawton, and H. A. Smith, to Nashua Corp. Heat responsive marking sheets. 3,167,444, 1-26-65, Cl. 117-36.8.
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- Baumann, Michael F., and W. R. Lawton, to Nashua Corp. Heat responsive marking sheets. 3,185,584, 5-25-65, Cl. 117-36.8.
- Baumann, Michael F., and W. R. Lawton, to Nashua Corp. Heat responsive marking sheets. 3,185,585, 5-25-65, Cl. 117-36.9.
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- Baumann, Paul H. Automatic valve for use within a funnel. 3,176,728, 4-6-65, Cl. 141-199.
- Baumanns, Herbert, and F. Schmitz. Oil heating appliance. 3,199,568, 8-10-65, Cl. 158-71.
- Baumbach, Harlan, to Panacolor, Inc. Gel applicator device for chemical processing of photographic film strips. 3,190,205, 6-22-65, Cl. 95-59.
- Baumbach, Thorkild O., to Telefonaktiebolaget LM Ericsson. Circuit arrangement for transmission of signals. 3,198,886, 8-3-65, Cl. 179-18.
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- Baumelster, Alois, and J. Vrastil, to Massey-Ferguson G.m.b.H. Cover strip for the concave on threshing machines. 3,191,607, 6-29-65, Cl. 130-27.
- Baumelster, Carlotto, to Voith-Getriebe K.G. Transmission for rail vehicles with internal combustion engine. 3,176,544, 4-6-65, Cl. 74-732.
- Baumelster, Heald K., and V. Nejeschle, to International Business Machines Corp. Hydrodynamically air lubricated magnetic tape head. 3,170,045, 2-16-65, Cl. 179-100.2.
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- Baumer, Herbert. Electromagnetically actuated tuning fork drive adapted for clockwork. 3,171,991, 8-2-65, Cl. 310-21.
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- Baumgart, Siegfried, H. U. Meyer, W. Luers, and R. Beyersdorff, to Siemens & Halske Aktiengesellschaft. Identification signalling system utilizing a transponder. 3,206,728, 9-14-65, Cl. 340-152.
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- Kruger, Heinz, and Baumgarten. 3,225,781.
- Baumgartner, Emil. Positive buoyancy prime mover. 3,194,008, 7-13-65, Cl. 60-22.
- Baumgartner, Eugen: See—
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- Baumgartner Freres S.A.: See—
- Bourgulignon, Jules F. J. 3,171,963.
- Baumgartner, Pierre, to Institut Français du Pétrole des Carburants et Lubrifiants. Chronol acetate assisted polypropylene dyeing. 3,169,043, 2-9-65, Cl. 8-4.
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- Baumgartner, Walter. Portable household budget computer. 3,223,321, 12-14-65, Cl. 235-114.
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- Baumle, Rudolph K. F., to Illinois Tool Works Inc. Thread forming screw and method and apparatus for making the same. 3,186,464, 6-1-65, Cl. 151-22.
- Baumle, Rudolf K. F., and H. A. Sygnator, to Illinois Tool Works Inc. Self-piercing nut with attaching groove. 3,213,914, 10-26-65, Cl. 151-41.72.
- Baumler, Hermann, and H. Lorcher, to Goetzwerke Friedrich Aktiengesellschaft. Rotor for rotary piston machines. 3,193,052, 7-6-65, Cl. 184-1.
- Baunach, Roy J., to Electroware Corp. Automatic corn popping machine. 3,209,672, 10-5-65, Cl. 99-238.4.
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- Motzel, Werner J., and Baur. 3,224,886.
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- Bean, Harley F., to Sperry Rand Corp. Sheet transport system. 3,195,837, 7-20-65, Cl. 271-53.
- Bean, Jean T., Hair drier. 3,199,218, 8-10-65, Cl. 34-98.
- Bean, Paul C., to FMC Corp. Fruit peeling method. 3,192,977, 7-6-65, Cl. 146-241.
- Bean, Ronald G., to Baker Perkins Inc. Master fixture. 3,174,746, 8-23-65, Cl. 269-297.
- Beane, Francis A.: See—
- Brundige, William L., and Beane. 3,208,812.
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- Bea, Ralston E. Overhead door operator. 3,186,038, 5-1-65, Cl. 20-16.
- Bea, Marshall P., to United States of America, Army. Land mine. 3,216,354, 11-9-65, Cl. 102-8.
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- Beard, Jack H., to Davy and United Engineering Co. Ltd. Presses. 3,210,985, 10-12-65, Cl. 72-462.
- Beard, Jack S. Foldable animal shipping container. 3,195,506, 7-20-65, Cl. 19-19.
- Beard, John H. V. Outboard and inboard propulsion means for watercraft. 3,173,397, 3-16-65, Cl. 115-35.
- Beard, John N., Jr.: See—
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- Beard, Kim D. Solar still. 3,193,473, 7-6-65, Cl. 202-234.
- Beard, Lawrence R., to Deere & Co. Coupler. 3,172,686, 8-9-65, Cl. 280-61.
- Beard, Samuel R., Jr., to General Electric Co. Cage construction for electron discharge devices. 3,193,716, 7-6-65, Cl. 313-1.
- Beard, Walter C., Jr., and P. M. Kotuby, to The Ridsdon Mfg. Co. Overcap and actuating button for aerosol containers. 3,180,531, 4-27-65, Cl. 222-182.
- Bearden, Charles R., to The Dow Chemical Co. Copolymer concentrate and oil composition. 3,210,282, 10-5-65, Cl. 252-51.5.
- Bearden, Charles R., and S. R. Hargis, Jr., to The Dow Chemical Co. Method for the preparation of glycol monoesters of acrylic and methacrylic acids. 3,215,731, 11-2-65, Cl. 260-486.
- Bearden, William G.: See—
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- Holmgren, Carl R., and Bearden. 3,180,748.
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- Beards, Samuel F., to Beta Aluminum Products Ltd. Adjustable louvre shutters. 3,205,541, 9-14-65, Cl. 20-62.
- Beardslee, Robert M., to General Electric Co. Rug cleaning attachment for polishers. 3,188,669, 6-15-65, Cl. 15-98.
- Beardsley, Kenneth D., and E. J. Wilk, to General Electric Co. Method of making a magnetic core. 3,164,889, 1-12-65, Cl. 29-155.57.
- Beardsley, Melville W., to A. F. Starobin. Plenum chamber ground effect machine. 3,195,665, 7-20-65, Cl. 180-7.
- Beardsley, Melville W., to A. F. Starobin. Spray suppressor for air cushion vehicles. 3,209,847, 10-5-65, Cl. 180-7.
- Beardsley, Melville W., to A. F. Starobin. Control device for air cushion vehicles. 3,216,518, 11-9-65, Cl. 180-7.
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- Beasley, Michael: See—
- Brewster, Arthur E., and Beasley. 3,174,050.
- Beasley, Noel F., to Bennett Respiration Products, Inc. Pressure breathing therapy unit. 3,221,733, 12-7-65, Cl. 128-29.
- Beasley, Noel F., to Bennett Respiration Products, Inc. Respiration apparatus. 3,221,734, 12-7-65, Cl. 128-29.
- Beasley, Silas V., and G. K. Harding, Jr., to McGraw-Edison Co. Oven supplied with hot air through foraminous duct-shelves. 3,221,729, 12-7-65, Cl. 126-21.
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- Hanes, Lewis F., Seefuth, and Beason. 3,175,939.
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- Beattie, John R., and K. J. B. Wolfe, to Pilkington Bros. Ltd. Method of producing toughened glass. 3,226,215, 12-28-65, Cl. 65-29.
- Beattie, Walter R., to Oglebay Norton Co. Hot top with rotating hanger means. 3,202,395, 8-24-65, Cl. 249-202.
- Beatty, David L. Telephone operating device for disabled persons. 3,170,990, 2-23-65, Cl. 179-1.
- Beatty, David L. Pneumatic control valve. 3,213,882, 10-26-65, Cl. 137-596.
- Beatty, Donald C. Gain-adjusting audio level terminator. 3,182,137, 5-4-65, Cl. 179-170.8.
- Beatty, Eldon L., to The Anderson Co. Motion-transmitting device. 3,184,987, 5-25-65, Cl. 74-424.8.
- Beatty, Eugene F., to The Bendix Corp. Actuator and control systems therefor. 3,188,916, 6-15-65, Cl. 91-165.
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- Beatty, James R., A. E. Juve, and P. W. Karper, to The B. F. Goodrich Co. Viscurometer. 3,182,494, 5-11-65, Cl. 73-101.
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- Beatty, John W., to R. V. Leonardson. Continuous gauge control. 3,205,585, 9-14-65, Cl. 33-148.
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- Beaubien, Everett E. Toy liquid dispenser. 3,193,149, 7-6-65, Cl. 222-109.
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- Beaudet, Lucien J. J. Spring clip retainer. 3,168,341, 2-2-65, Cl. 287-119.
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- Beaugh, John B., L. M. Johnson, and L. W. Pohler, to Esso Research and Engineering Co. Automatic operation and process control. 3,202,602, 8-24-65, Cl. 208-33.

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- Bechler, Andre. Mechanism for controlling the movements of a cutting tool in an automatic machine tool. 3,199,885, 8-10-65, Cl. 82-5.
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- Beck, Harold V., to Marconi Instruments Ltd. Low frequency waveform generators utilizing sampling of high frequency waveform. 3,211,924, 10-12-65, Cl. 307-68.5.
- Beck, Henry C., to Sun Oil Co. Fermentation apparatus and process. 3,201,327, 8-17-65, Cl. 195-109.
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- Becke, Margot, to Olin Mathieson Chemical Corp. Composition of the formula P_2NSCl_3 and process for preparing the same. 3,226,181, 12-28-65, Cl. 23-14.
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- Beers, Roland F., Jr. Process for preparing a nucleic acid. Re. 25,785, 6-1-65, Cl. 195-29.
- Beers, Roland F., Jr. Process for purifying enzymes. 3,208,918, 9-28-65, Cl. 195-66.
- Beersmans, Jules E.: See—
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- Beersstecher, Wolfgang, H. Metz, and K. Bruckner, to E. Merck Aktiengesellschaft, Firma. Pharmaceutical composition comprising 7-methoxy-17a-methyl testosterone. 3,210,249, 10-5-65, Cl. 167-74.
- Beery, Virgil R. Insulation blower. 3,171,692, 3-2-65, Cl. 302-36.
- Beery, Virgil R. Electrical heating mat. 3,193,664, 7-6-65, Cl. 219-549.
- Beesley, James P., to International Business Machines Corp. Cryotron shift register. 3,185,862, 5-25-65, Cl. 307-88.5.
- Beesley, Stanley, and D. A. Shorman, to British Celanese Ltd. Manufacture of peracetic acid. 3,201,460, 8-17-65, Cl. 260-502.
- Beeson, Chester R. Support stand. 3,208,712, 9-28-65, Cl. 248-423.
- Beeson, Clement T., Jr., W. T. Russell, and W. E. Webb. Method and apparatus for breaking and separating eggs. 3,207,198, 9-21-65, Cl. 146-221.
- Beeson, Harry R. Drinking vessel with spill preventing closure. 3,208,629, 9-28-65, Cl. 220-90.4.
- Beeson, Orville C. Grubbing machine. 3,193,951, 7-13-65, Cl. 37-2.
- Beeston, John T., Jr., to Frontier Development, Inc. Electronic thermometer. 3,187,576, 6-8-65, Cl. 73-362.
- Beet, Philip H., to The General Electric Co. Ltd. Receivers for use in electric signalling systems. 3,168,685, 2-2-65, Cl. 317-138.
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- Beets, Muus G. J., and H. van Eesen, to International Flavors & Fragrance I.F.F. (Nederland N.V.) Perfume oils containing 2-methyl-3-(3'-4'-methylenedioxyphenyl)-propanol. 3,185,629, 5-25-65, Cl. 167-94.
- Beetzer, Earl F. Slide. 3,186,775, 6-1-65, Cl. 308-6.
- Beetzer, Earl F. Motion transmitting device. 3,199,359, 8-10-65, Cl. 74-55.
- Begg, Clayton B., and J. R. Janczy, to Western Electric Co., Inc. Gaging apparatus. 3,225,584, 12-28-65, Cl. 72-461.
- Begg, Percy R., and A. Chun-Hoon. Orthodontic bracket. 3,163,933, 1-6-65, Cl. 32-14.
- Beggs, Donald, to Midland-Ross Corp. Temperature control system for jet convection strip heating furnace. 3,186,694, 6-1-65, Cl. 263-3.
- Beggs, Harold L., to Alcorn Combustion Co. Ridge firing arrangement for process heaters. 3,221,711, 12-7-65, Cl. 122-240.
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- Begley, Francis T., to Westinghouse Electric Corp. Transformer cooling using thermoelectric devices. 3,170,130, 2-16-65, Cl. 336-55.
- Begley, Richard T., R. W. Buckman, Jr., and R. L. Ammon, to Westinghouse Electric Corp. Niobium alloys. 3,206,305, 9-14-65, Cl. 75-174.
- Begley, Warren W., R. E. Wilcox, and E. A. Hockinson. Fluid control system. 3,225,782, 12-28-65, Cl. 137-115.

- Bego, Robert E., W. J. Thomas, and A. N. Voltattorni, to Progress Pattern Co. Blow plate assembly. 3,163,894, 1-6-65, Cl. 22-10.
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- Beha, Walter, and W. Bender, to Schoeller & Co. Elektro-technische Fabrik. Cigarette dispenser. 3,211,327, 10-12-65, Cl. 221-15.
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- Behlen, Herbert P. and W. D., to Behlen Mfg. Co., Inc. Material storage means. 3,165,054, 1-12-65, Cl. 99-235.
- Behlen Mfg. Co., Inc.: See—
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- Behlen, Walter D., to Behlen Mfg. Co., Inc. Flexible door. 3,169,574, 2-16-65, Cl. 160-363.
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- Behles, Franz G. F., to Daimler-Benz Aktiengesellschaft. Interrelated fluid suspension and brake system for vehicles. 3,165,363, 1-12-65, Cl. 303-6.
- Behles, Franz G. F., and J. Eibl, to Daimler-Benz Aktiengesellschaft. Frame for motor vehicles with front wheel drive. 3,212,597, 10-19-65, Cl. 180-42.
- Behling, Robert L. Veneer clipper having means to position workpiece relative to the cutter blade. 3,187,613, 6-8-65, Cl. 83-207.
- Behlke, Herbert F., to Ford Motor Co. Vehicle suspension system having an articulated spring support. 3,193,304, 7-6-65, Cl. 280-124.
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- Behnke, Arnold F., to Kay-Brunner Steel Products, Inc. Cam shaft and method of making same. 3,204,482, 9-7-65, Cl. 74-567.
- Behnke, Floyd A., to International Business Machines Corp. Associative memory low temperature fast read circuit. 3,184,717, 5-18-65, Cl. 340-178.1.
- Behnke, Floyd A., to International Business Machines Corp. Associative memory match indicator control. 3,195,109, 7-13-65, Cl. 340-172.5.
- Behnke, George W., to Simplicity Engineering Co. Screen tensioning and clamping means. 3,186,547, 6-1-65, Cl. 209-403.
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- Behr, William F. Fluid shock absorbing bumper. 3,228,146, 12-28-65, Cl. 293-80.
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- Behrend, Herbert and Horst. Bolt guns. 3,217,440, 11-16-65, Cl. 42-8.
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- Behrens, Curtis E., to Borg-Warner Corp. Solvent recovery device. 3,214,026, 10-26-65, Cl. 210-521.
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Beitchman, Burton D., and J. H. Krause, to Air Products and Chemicals Inc. Triethylene diamine and a polyimine cocatalyst system polyurethane polymerization. 3,179,628, 4-20-65, Cl. 260-77.5.

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- Bennett, Richard L., and F. O. Underwood, to International Business Machines Corp. Data editing system. 3,185,965, Cl. 340-172.5.
- Bennett, Richard L., and F. O. Underwood, to International Business Machines Corp. Data editing system. 3,185,966, 5-25-65, Cl. 340-172.5.
- Bennett, Richard R. Charcoal grill. 3,191,591, 6-29-65, Cl. 126-25.

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- Bennett, Robert H. Remote control of selector switches. 3,196,400, 7-20-65, Cl. 340-151.
- Bennett, Robert M., to Container Corp. of America. Master shipping container for multi-unit packages. 3,212,636, 10-19-65, Cl. 206-65.
- Bennett, Robert N., to The Oilgear Co. Hydraulic engine. 3,168,006, 2-2-65, Cl. 91-176.
- Bennett, Robert P.: See—
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- Bennett, Robert P., and W. O. Lichtner, Jr., to Cornell-Dubilier Electric Corp. Pulse operated remote control system. 3,197,683, 7-27-65, Cl. 318-16.
- Bennett, Robert P., to M. W. Chapman, R. E. Ward, Jr., and W. S. Ward. Insecticidal application device. 3,212,211, 10-19-65, Cl. 43-148.
- Bennett, Rowland C., to Skli Corp. Rotary driving tool with variable pitch spring. 3,194,370, 7-13-65, Cl. 192-56.
- Bennett, Sydney. Reinforced concrete structures having formwork embedded therein. 3,223,378, 12-14-65, Cl. 249-15.
- Bennett, Walter, to Utility Trailer Mfg. Co. Perimeter cooled cargo container. 3,224,500, 12-21-65, Cl. 165-53.
- Bennett, Willard H. Ion probe for measuring interplanetary medium. 3,222,562, 12-7-65, Cl. 313-231.
- Bennett, William N., to Cypress Gardens Skis, Inc. Water ski display rack. 3,164,256, 1-5-65, Cl. 211-60.
- Bennett, William O., W. W. Mutter, and E. Van Haften, to Bulova Watch Co., Inc. Electronically-controlled time-piece and motion transformer therefor. 3,184,981, 5-25-65, Cl. 74-142.
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- Bennett, William R., Jr., to Bell Telephone Laboratories, Inc. Frequency stabilized optical maser. 3,170,122, 2-16-65, Cl. 331-94.5.
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- Bennett, Robert H., H. R. Hedlund, and H. K. Wethe, to Union Carbide Corp. Railroad rail pressure butt welding. 3,212,184, 10-19-65, Cl. 29-475.
- Benning, Anton, and O. Grosskinsky, to Bergwerksverband G.m.b.H. Method for oxidizing organic substances. 3,173,947, 3-16-65, Cl. 260-524.
- Benning, Calvin J., R. S. Gregorian, and F. X. Werber, to W. R. Grace & Co. Process for forming cross-linked polyethylene film. 3,201,503, 8-27-65, Cl. 264-95.
- Benning, Calvin J., and F. X. Werber, to W. R. Grace & Co. Coating and laminating process. 3,215,580, 11-2-65, Cl. 156-332.
- Benninger, James A., Jr., to R. D. Werner Co., Inc. Ladder attachments. 3,223,369, 12-14-65, Cl. 248-210.
- Bennion, David R., and D. C. Engelbart, to AMP Inc. Bidirectional shift register utilizing flux pumping. 3,208,052, 9-21-65, Cl. 340-174.
- Bennison, Michael J.: See—
- Calger, Bernard, and Bennison. 3,219,136.
- Benno, Edward L.: See—
- Grant, Raymond T. 3,170,729.
- Bennon, Saul, to Westinghouse Electric Corp. Electrical inductive apparatus having coolant ducts in insulation. 3,183,460, 5-11-65, Cl. 336-57.
- Benny, Alan H. B., and A. Trainor, to North American Phillips Co., Inc. Semi-conductor device with copper-boron alloyed electrode and method of making the same. 3,181,981, 5-4-65, Cl. 148-185.
- Beno, George A., to The Bridgeport Machines, Inc. Automatic pick-feed attachment. 3,205,781, 9-14-65, Cl. 90-21.
- Benoit, George J., Jr., to California Research Corp. Fatty acid polyamide. 3,169,980, 2-16-65, Cl. 260-404.5.
- Benoit, Jean, to Merlin & Gerin, Etablissements. Device for determining the relative position of two objects. 3,220,005, 11-23-65, Cl. 343-112.
- Benoit, Louis. Fishing tackle dropaway sinker. 3,177,606, 4-13-65, Cl. 43-43.12.
- Benoit, Paul H., to United States of America, Army. Disconnectable cartridge belt link. 3,190,179, 6-22-65, Cl. 89-35.
- Benoit, Richard C., Jr.: See—
- Vogelman, Joseph H., Benoit, Thompson, and Kozien. 3,213,200.
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- Benoit, Roland A., R. F. Glingras, and R. H. Duprey. Article holder. 3,182,808, 5-11-65, Cl. 211-60.
- Bens, Jean R., to Compagnie Generale de Radiologie. Fluid sample holders for X-ray spectrometers under vacuum. 3,218,459, 11-16-65, Cl. 250-51.5.
- Bensema, Eugene, to United States Steel Corp. Apparatus for monitoring vibrations of a fan. 3,195,034, 7-13-65, Cl. 318-460.
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- Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Rotary piston engine. 3,196,848, 7-27-65, Cl. 123-8.
- Benson, Alfred B., to Sensing Devices, Inc. Unitary sheath securing means for sensing brush contact devices. 3,193,654, 7-6-65, Cl. 200-166.
- Benson, Bernard S., to Bank of America National Trust and Savings Assn. Automatic iris control by camera film magazine. 3,194,133, 7-13-65, Cl. 95-10.
- Benson, Bernard S., and R. R. Campbell, to Bank of America National Trust and Savings Association. Panoramic film viewer with gyroscopic stabilizing reference means. 3,218,910, 11-23-65, Cl. 88-1.
- Benson, Carl F., to The Torrington Co. Preloaded universal joint. 3,217,515, 11-16-65, Cl. 64-7.
- Benson, Carl F., and J. H. Cowles, to The Torrington Co. Overrunning clutch and cage therefor. 3,184,020, 5-18-65, Cl. 192-45.
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- Benson, Clark K., and A. A. Caridis, to Heat & Control, Inc. Food cooker. 3,209,678, 10-5-65, Cl. 99-406.
- Benson, Clark K., and A. A. Caridis, to Heat & Control, Inc. Food washing and cooking apparatus. 3,223,024, 12-14-65, Cl. 99-352.
- Benson, Donald H., and W. R. Pratt, to Vanguard Abrasive Corp. Diamond abrasive saw blade. 3,201,902, 8-24-65, Cl. 51-206.
- Benson, Elliot W., to Foster Wheeler Corp. Downflow stability arrangement. 3,204,612, 9-7-65, Cl. 122-406.
- Benson, Fritz C., to The H. B. Ives Co. Door stop. 3,174,179, 3-23-65, Cl. 16-137.
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- Benson, Gustav E. V. Closing device for containers filled with pastes or liquids. 3,203,603, 8-31-65, Cl. 222-494.
- Benson, Harold R., to The Nuarc Co. Photographic work table. 3,204,545, 9-7-65, Cl. 95-100.
- Benson, Harry A. Feeding mechanism for envelope printing press. 3,175,822, 3-30-65, Cl. 271-2.
- Benson, Hector E. Electromagnetic device having a permanent magnet armature. 3,218,523, 11-16-65, Cl. 317-172.
- Benson, Homer E., to Con-Gas Service Corp. Process for the preparation of mixtures of hydrogen, carbon monoxide and methane. 3,222,147, 12-7-65, Cl. 48-197.
- Benson, Horace P., to B & J Jewelry Co., Inc. Belt buckle. 3,174,202, 3-23-65, Cl. 24-230.
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- Benson, Jack J., to Williams Research Corp. Gas turbine. 3,203,181, 8-31-65, Cl. 60-39.51.
- Benson, James M., to Hastings-Raydist, Inc. Thermal flow-meter. 3,181,357, 5-4-65, Cl. 73-240.
- Benson, Jewell R. Asphalt penetrative ground stabilizer. 3,216,336, 11-9-65, Cl. 94-23.
- Benson, John O., to General Mills, Inc. Continuous enrobing machine. 3,167,035, 1-26-65, Cl. 107-54.
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- Benson, Walter E., and J. M. Lindsay, to J. M. Nash Co., Inc. Gun case. 3,191,652, 6-29-65, Cl. 150-52.
- Benson, Wilfred Y., and L. W. Marsh, Jr., to Anelox Corp. Type-setting mechanism for high speed printers. 3,176,610, 4-6-65, Cl. 101-93.
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- Bent, John H., and R. H. Olsson, to Gardner-Denver Co. Positive engaging jaw clutch or brake. 3,204,731, 9-7-65, Cl. 192-67.
- Bentele, Max, to Curtiss-Wright Corp. Rotor and seal combination for rotary mechanisms. 3,176,910, 4-6-65, Cl. 230-145.
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- Bentele, Max, and W. J. Derner, to Curtiss-Wright Corp. Oil seal construction for rotary combustion engines. 3,171,590, 3-2-65, Cl. 230-207.
- Bentele, Max, C. Jones, and A. H. Raye, to Curtiss-Wright Corp. Cooling system for a rotary mechanism. 3,176,915, 4-6-65, Cl. 230-210.
- Benteler, Helmut, and W. Vogel, to Benteler-Werke Aktiengesellschaft. Apparatus for the extrusion pressing of tubes, specially steel tubes. 3,201,966, 8-24-65, Cl. 72-264.
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- Bentley, Clarence H., to Modern Faucet Mfg. Co. Shower head. 3,206,234, 9-14-65, Cl. 285-268.
- Bentley, Edward P., and C. A. Spears, to Kollmorgen Corp. Acceleration sensitive device and operative means associated therewith. 3,195,357, 7-20-65, Cl. 73-503.
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- Bentley, Floyd W. Radiant panel heated chicken brooder. 3,206,121, 9-14-65, Cl. 237-15.
- Bentley, George P., and G. H. Lovins, to Kollmorgen Corp. Method of producing aspheric surfaces on mirrors or lenses. 3,210,894, 10-12-65, Cl. 51-284.
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- Bentley, James S., to Teleflex Products Ltd. Controls. 3,218,880, 11-23-65, Cl. 74-502.
- Bentley, John M., to Westinghouse Electric Corp. Voltage comparator circuit. 3,194,982, 7-13-65, Cl. 307-88.5.
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- Bentley, John M., to Westinghouse Electric Corp. Semi-conductor amplifier. 3,218,467, 11-16-65, Cl. 307-88.5.
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- Bentley, George K., and G. W. Mathis, to McCray Refrigerator Co., Inc. Frozen food display case. 3,218,822, 11-23-65, Cl. 62-256.
- Bento, Robert, E. L. Fogle, and R. G. Lascola, to Westinghouse Electric Corp. Semiconductor amplitude modulator apparatus. 3,170,126, 2-18-65, Cl. 332-31.
- Bento, Robert, I. F. Barditch, and F. Rachal, to Westinghouse Electric Corp. Signal seeking receiving apparatus. 3,189,829, 6-15-65, Cl. 325-470.
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- Benton, Charles H., to Eastman Kodak Co. Universal machining fluid. 3,205,172, 9-7-65, Cl. 252-49.5.
- Benton, Charles H., Jr., to Eastman Kodak Co. Autogenous, vitamin E active beadlet product and process. 3,221,029, 11-30-65, Cl. 260-345.5.
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- Benton, Earl M. Electro-separator for separation of dry comminuted material. 3,217,880, 11-16-65, Cl. 209-130.
- Benton, Robert C., to Centre Circuits, Inc. Layout table and coordinate reader. 3,165,834, 1-19-65, Cl. 33-1.
- Benton, Robert C., to Centre Circuits, Inc. Positioning table with compensating mechanism. 3,169,321, 2-16-65, Cl. 33-125.
- Benton, Robert C., to Centre Circuits, Inc. Table stopping device having null sensor. 3,184,599, 5-18-65, Cl. 250-220.
- Benton, Robert C., to Chemcut Corp. Photosensitive table positioning control. 3,210,550, 10-5-65, Cl. 250-234.
- Benton, Robert C., and R. R. Whitehouse, to Chemcut Corp. Automatic motor controlled positioning apparatus. 3,210,632, 10-5-65, Cl. 318-162.
- Benton, Robert C., and G. Decker, to Chemcut Corp. Method and apparatus for etching. 3,224,914, 12-21-65, Cl. 156-2.
- Bentor, Itzhak E. Method of explosively forming fibers. 3,165,828, 1-19-65, Cl. 29-419.
- Bentor, Itzhak, and R. M. Jolkovski, 50% to Delavan Mfg. Co., and 50% to The Aro Corp. Method of encapsulating liquid particles in thermoplastic shell. 3,167,602, 1-26-65, Cl. 264-4.
- Bentsen, Arthur R., to General Electric Co. Portable phonograph. 3,167,314, 1-26-65, Cl. 274-2.
- Bentsen, Arthur R., to General Electric Co. Compact console phonograph. 3,169,772, 2-16-65, Cl. 274-2.
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- Bentzman, Louis, to Rudd-Melikian, Inc. Article dispensing machine. 3,193,135, 7-6-65, Cl. 221-6.
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- Benzinger, Theodore M., and R. K. Rohwer, to United States of America, Atomic Energy Commission. Preparation of nitroalkyl chlorides. 3,207,796, 9-21-65, Cl. 260-644.
- Benzinger, Erhard P., to Monsanto Co. Hydrazodicarboxylic acid dihydrazides. 3,171,857, 3-2-65, Cl. 260-554.
- Benzler, Hartwig, to Babcock & Wilcox, Ltd. Shielding arrangement for a spherical nuclear reactor vessel. 3,182,000, 5-4-65, Cl. 176-40.
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- Berberick, Frank A., to Western Electric Co., Inc. Article positioning apparatus. 3,192,813, 7-6-65, Cl. 83-365.
- Berechto, Glenn A., to E. I. du Pont de Nemours and Co. N,N'-disubstituted dicarboxamides and dithiocarboxamides prepared from monoamines. 3,182,060, 5-4-65, Cl. 260-247.2.
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- Bercovitz, Louis, to Loubser Corp. Mechanically operable brush. 3,214,776, 11-2-65, Cl. 15-26.
- Bertzynski, Frank A., to John Mohr & Sons. Fluid cooled valve. 3,207,174, 9-21-65, Cl. 137-315.
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- Beredjick, Nicky, to Standard Oil Co. Distillate treatment to accelerate evaporation and condensate treatment to retard evaporation. 3,220,934, 11-30-65, Cl. 202-56.
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- Berens, Heinrich, to Reimers-Getriebe KG. Infinitely variable cone pulley transmission. 3,190,185, 6-22-65, Cl. 74-230.17.
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- Beretta, Pier C. Actuating mechanism for automatic shotgun. 3,174,401, 3-23-65, Cl. 59-132.
- Beretta, Pier G., to Fabbrica d'Armi P. Beretta S.p.A. Device for delaying the arming of combination automatic and semi-automatic fire-arms. 3,203,312, 8-31-65, Cl. 89-129.
- Beretvas, Helen S., to Standard Oil Co. Lubricants containing alkyl phenol lactates. 3,216,938, 11-9-65, Cl. 252-48.6.
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- Berezat, André L., N. Bullukian, and L. G. Chelle, to Shell Oil Co. Closure assembly for containers. 3,207,375, 9-21-65, Cl. 222-81.
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- Berg, Daniel, and P. J. Mallinaric, to Westinghouse Electric Corp. Electrical stress-grading coatings. 3,210,461, 10-5-65, Cl. 174-127.
- Berg, David M. Concrete form tie having flexible threads and associated bolt and method of making said tie. 3,164,878, 1-12-65, Cl. 25-131.
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- Berg, Edward T. Mold member for forming a control joint. 3,166,816, 1-26-65, Cl. 25-128.
- Berg, Edward T. Reglet construction. 3,168,798, 2-9-65, Cl. 60-47.
- Berg, Elaine. Caps for nurses or the like. 3,221,345, 12-7-65, Cl. 2-198.
- Berg, Eldon L., to Continental Can Co., Inc. Method and apparatus for packaging products in cartons. 3,214,880, 11-2-65, Cl. 53-23.
- Berg, Gordon C., to Tony Plet Motor Sales, Inc. Internal combustion engines and motor vehicles. 3,172,348, 3-9-65, Cl. 98-2.
- Berg, Harold A., to Minnesota Mining and Mfg. Co. Reflective dry strip transfer. 3,172,942, 3-9-65, Cl. 88-82.
- Berg, Harold I. Lifting tool. 3,198,362, 8-3-65, Cl. 214-370.
- Berg, Jack A., to Marine Swimming Pool Equipment Co. Cleaning device for swimming pools. 3,168,896, 2-9-65, Cl. 134-167.
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- Bergner, Simon A. Test adapter with plug-in pins electrically connected to conductive elements axially spaced about its exterior periphery. 3,187,125, 6-1-65, Cl. 200-51.05.
- Berge, Joseph M. Modular wall panel with self-locking detachable article supporting brackets. 3,172,540, 3-9-65, Cl. 211-87.
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- Bergen, Edward C., to Wellmade Metal Products Co. Adjustable roof safe and cap assembly. 3,200,735, 8-17-65, Cl. 98-46.
- Bergen, James W., and E. F. Cove, to ACF Industries Inc. Drive mechanism for collapsible trailer hitches on railway cars. 3,188,982, 8-15-65, Cl. 105-368.
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- Bergen Laboratories, Inc.: See—
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- Bergen, Robert L., Jr., to United States Rubber Co. Composition resistant to stress-cracking in solvents comprising graft copolymer-resin blend containing diamine. 3,198,853, 8-3-65, Cl. 260-876.
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- Berger, Albert E., Jr., to Austin Continental Industries, Inc. Three member slide mechanism for cabinet drawers. 3,186,785, 6-1-65, Cl. 312-339.
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- Berger, Alfred, to Ciba Ltd. Amine salt of a quaternary ammonium-containing acid. 3,174,985, 3-23-65, Cl. 260-404.5.
- Berger, Alfred, to Ciba Ltd. Paraffin oil dye assistant and wool dyeing therewith. 3,211,512, 10-12-65, Cl. 8-18.
- Berger, Alfred, to Ciba Ltd. Composition for reducing readiness with which synthetic fibers accept an electric charge. 3,211,646, 10-12-65, Cl. 252-8.8.
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- Berger, Arthur, and E. E. Borgoes, to Baxter Laboratories Inc. Benzyl ureas. 3,164,632, 1-5-65, Cl. 260-553.
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- Leoffel, Lester H. 3,194,241.
- Berger, Bruno, and N. E. Gatiss, to C. A. Parsons & Co. Ltd. Cooled brush holder for carrying current in dynamoelectric machines. 3,206,630, 9-14-65, Cl. 310-227.
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- Berger, Christian D., to The Hoover Co. Variable speed power propelled appliances. 3,218,876, 11-23-65, Cl. 74-202.
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- Berger, George C. Vapor generating apparatus. 3,177,851, 4-13-65, Cl. 123-25.
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- Berger, James K., to General Precision, Inc. Electronic digital computer clock read amplifier. 3,207,925, 9-21-65, Cl. 307-88.5.
- Berger, John R., and S. R. Rich, to Northern Industries, Inc. Defoaming system. 3,169,561, 2-16-65, Cl. 141-69.
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- Berger, Uriah S., to Bell Telephone Laboratories, Inc. Elimination of frequency shift in suppressed carrier systems. 3,176,226, 3-30-65, Cl. 325-49.
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- Bergerson, James A., and J. S. Stinnett. Power unit for wheel-supported fluid conduit. 3,202,172, 8-24-65, Cl. 137-344.
- Bergeson, Ragnvald. Trimmer attachment for power lawn mower. 3,192,693, 7-6-65, Cl. 56-25.4.
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- Bergeson, Raymond L., to Honeywell Inc. Level gauge capacitor with electrodes of different materials. 3,192,455, 6-29-65, Cl. 317-247.
- Bergevin, Bernie B. Animal water and feed mixing and dispensing device. 3,196,835, 7-27-65, Cl. 119-51.11.
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- Bersling, Charles G. B. Cutting device for light weight concrete. 3,173,185, 3-16-65, Cl. 25-105.
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- Bergman, Charles W. Power driven earth working tillers and tractors and the like. 3,223,174, 12-14-65, Cl. 172-43.
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- Bergman, Erick W. Construction for adjusting the relative position of screw connected parts. 3,171,518, 3-2-65, Cl. 189-36.
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- Bergman, Lars O. Process for acid and then alkaline refining fatty oils. 3,226,407, 12-28-65, Cl. 260-424.
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- Bergmann, Franz, K.G.: See—
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- Berker, Ralph C., Sr. Means for securing a non-magnetic workpiece to a magnetic chuck. 3,178,620, 4-13-65, Cl. 317-159.
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- Berkey, William E., and J. R. Schuster, to Lear Siegler, Inc. Dehydrator method. 3,192,686, 7-6-65, Cl. 55-21.
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- Berkshire International Corp.: See—
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- Berler, Wilhelm. Method of casting end stops on zip fasteners. 3,219,743, 11-23-65, Cl. 264-275.
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- Berman, Myron S., to Vic Mfg. Co. Article storing and delivering conveyor. 3,207,262, 9-21-65, Cl. 186-16.
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- Bernard, Frank J. Connector for display structures and the like. 3,193,634, 7-6-65, Cl. 200-51.
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- Bernstein, Albert A. Insect protected bird and animal feeder. 3,195,510, 7-20-65, Cl. 119-61.
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- Bernstein, Joseph M., to Automatic Electric Laboratories, Inc. Bi-stable reed relay. 3,217,122, 11-9-65, Cl. 200-87.
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- Berrigan, Paul J., to Shell Oil Co. Alkylation of phenol. 3,198,842, 8-3-65, Cl. 260-624.

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- Berry, Glen C. T. Briggs, Jr., C. F. Treppa, and E. L. Barlow, Jr., to The Stanley Works. Door operating mechanism. 3,195,617, 7-20-65, Cl. 160-193.
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- Berstein, Gregor, and R. G. Nuttle, to Cabot Corp. Titanium dioxide pigments. 3,212,911, 10-19-65, Cl. 106-300.
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- Bertaut, Erwin F., and F. Forrat. Preparation of monocrytals of rare earth manganites. 3,226,183, 12-28-65, Cl. 23-58.
- Bertea, Octavian, J. R. Gross, and S. R. Seagle, to National Distillers and Chemical Corp. Corrosion resistant zirconium base alloys containing Cb, Cr, and Sn. 3,205,070, 9-7-65, Cl. 75-177.
- Bertel, Gust A., and F. J. Schiffmacher, to Federal Pacific Electric Co. Fuse and method of manufacture. 3,206,579, 9-14-65, Cl. 200-123.
- Bertels, Josef. Process and member for joining by welding light metals with steel. 3,202,793, 8-24-65, Cl. 219-118.
- Bertelsen, William R. Plow. 3,180,432, 4-27-65, Cl. 172-755.
- Berth, Peter: See—
- Gundel, Wolfgang, Berth, and Kaiser. 3,188,312.
- Berth, Peter, and G. Reese, to Therachemie Chemisch Therapeutische Gesellschaft m.b.H. Phosphoric acid derivatives for protection of hair from damage in bleaching and dyeing the same. 3,202,579, 8-24-65, Cl. 167-88.
- Berth, Peter, B. Blaser, H. G. Germscheid, and K. H. Worms, to Therachemie chemisch therapeutische Gesellschaft m.b.H. Composition consisting of a mercapto compound and an organic phosphorus acid derivative as a color. 3,213,129, 10-19-65, Cl. 260-501.
- Berther, Clau: See—
- Glesen, Johann, and Berther. 3,187,037.
- Berthier, Francois: See—
- Desvieux, Jacques, and Berthier. 3,215,209.
- Berthier, Albert F. Reel with resilient driving means. 3,175,782, 3-30-65, Cl. 242-84.3.
- Berthier, Jacques M.: See—
- Belafieff, James F., and Berthier. 3,178,916.
- Berth-Jones, Eric W., to Electric & Musical Industries Ltd. Stereophonic signal transmission system level control. 3,197,561, 7-27-65, Cl. 179-1.
- Berthmann, Adolf, C. Franze, and P. Lingens, to Dynamit Nobel Aktiengesellschaft. Production of detonatable explosive emulsion preparations. 3,212,945, 10-19-65, Cl. 149-51.
- Berthod, Louis, and M. Grenon. Thermal excess-pressure device. 3,164,174, 1-5-65, Cl. 138-30.
- Berthold, Cornelius E., to San Antonio Chemicals, Inc. Process for preparing cesium compounds from cesium alum. 3,207,571, 9-21-65, Cl. 23-33.
- Berthold, Cornelius E., to San Antonio Chemicals, Inc. Process for preparing cesium and alloys thereof. 3,207,598, 9-21-65, Cl. 75-135.
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- Berthou, Jean: See—
- Armand, Marcel, and Berthou. 3,206,280.
- Berthou, Jean, to Progil Societe Anonyme. Purification of impure phenols by distillation with an organic solvent. 3,169,101, 2-9-65, Cl. 202-39.5.
- Bertin & Cie: See—
- Guilenne, Paul F., and Bertin. 3,212,700.
- Bertin, Daniel, to Roussel UCLAF. Compositions and method for the treatment of vascular spasms. 3,165,444, 1-12-65, Cl. 167-65.
- Bertin, Daniel, to Roussel UCLAF, S.A. Novel 21-bis-(hydroxymethyl)-5 β -pregnanes and their preparation. 3,176,012, 3-30-65, Cl. 260-239.55.
- Bertin, Daniel, and J. Perronet, to Roussel UCLAF, S.A. 21-bis-(aminomethyl)-pregnanes. 3,180,796, 4-27-65, Cl. 167-65.
- Bertin, Jean H.: See—
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- Bertin, Jean H., and E. Dubois, to Societe Bertin & Cie. Device for permitting deck landings on an aircraft-carrier in misty or foggy weather. 3,196,822, 7-27-65, Cl. 114-43.5.
- Bertin, Jean H., and E. Dubois, to Societe Bertin & Cie. Device for clearing wide roads or runways covered with snow and ice. 3,199,506, 8-10-65, Cl. 126-271.2.
- Bertling, Ronald J., to McGraw-Edison Co. Contact structure for electric disconnect switch. 3,196,226, 7-20-65, Cl. 200-48.
- Bertis, Josef. Sliding gate valve sector-type storage tank closure. 3,198,482, 8-3-65, Cl. 251-302.
- Bertoglio, Guido. Machine for piercing ball pen points or similar articles of manufacture. 3,167,977, 2-2-65, Cl. 77-5.
- Bertoglio, Guido, and S. Albertini, to Real Patentauswertung Anstalt. Operating mechanism for ball point pens and the like which may be pressed in a single piece with the snap members. 3,196,839, 7-27-65, Cl. 120-42.3.
- Bertoglio, Guido, and S. Albertini, to Real Patentauswertung Anstalt di Vaduz A.L. Process for the cold rough shaping of ball pen points. 3,209,453, 10-5-65, Cl. 72-354.
- Bertolacini, Ralph J., to Standard Oil Co. Recovery process. 3,169,056, 2-9-65, Cl. 75-83.
- Bertolacini, Ralph J., to Standard Oil Co. Catalytic hydrocarbon conversion activity determination process. 3,169,831, 2-16-65, Cl. 23-230.
- Bertold, Arthur, and E. L. Spitzer, to F. Wise, and N. Cohon. Vibrating method and apparatus. 3,172,588, 3-9-65, Cl. 225-93.
- Bertoldo, Joseph M. Self-service bed pan. 3,174,159, 3-23-65, Cl. 4-112.
- Bertolini, William A.: See—
- Turnbull, Donald M., and Bertolini. 3,206,902.
- Turnbull, Donald M., Bertolini, and Carr. 3,185,519.
- Bertolini, William A., R. A. Klein, and C. W. Seim, to Pullman Inc. Mounting for marker light. 3,225,185, 12-21-65, Cl. 240-8.2.
- Bertolini, William A., and D. G. Davison, to Pullman Inc. Pneumatic apparatus for handling pulverulent materials. 3,226,166, 12-28-65, Cl. 302-52.
- Bertollo, Norman J., to Interchemical Corp. Composition and method for making water vapor permeable coated fabric. 3,222,208, 12-7-65, Cl. 117-63.
- Bertossa, Donald C.: See—
- Arnold, Perry C., and Bertossa. 3,210,520.
- Bertram, John M., E. J. Prince, and J. K. Stone, to Kaiser Industries Corp. Lance for use in a basic oxygen conversion process. 3,223,398, 12-14-65, Cl. 266-34.
- Bertram, Paul F., to Lee-Rowan Co. Combined coat and trousers hanger. 3,188,610, 6-1-65, Cl. 223-91.
- Bertram, Wallace H. Compact cot. 3,206,774, 9-21-65, Cl. 5-110.
- Bertrand, Charles, to Beacon Mfg. Co. Napping machine. 3,174,205, 3-23-65, Cl. 26-33.
- Bertrand, Charles, to Beacon Mfg. Co. Napping machine. 3,175,224, 3-23-65, Cl. 26-33.
- Bertrand, Harry A. Safety device for vehicle passengers. 3,197,234, 7-27-65, Cl. 280-150.
- Bertrand, Henri. Method for opening the shells of oysters and like bivalves. 3,174,180, 3-23-65, Cl. 17-45.
- Bertrand, Jean, to Compagnie de Saint-Gobain. Process and apparatus for drawing glass. 3,218,142, 11-16-65, Cl. 65-84.
- Bertrand, Paul A. Tractor vehicle. 3,224,407, 12-21-65, Cl. 115-1.
- Bertsch, Fritz, to Messrs. Hans Biehl. Endless blank forms. 3,223,437, 12-14-65, Cl. 282-11.
- Bertschinger, Jakob. Gas-operated, manually cocked shooting device. 3,199,501, 8-10-65, Cl. 124-11.
- Bertucci, Frank L. Twin lens camera. 3,181,446, 5-4-65, Cl. 95-44.
- Bertuccio, Domenick J.: See—
- Cannon, William D., and Bertuccio. 3,189,733.
- Bertuch, Charles J., N. H. Meyers, and H. Sobol, to International Business Machines Corp. Superconductive circuit. 3,202,833, 8-24-65, Cl. 307-88.5.
- Berwanger, John J., to Hood Sponge Rubber Co. Sponge rubber weatherseal. 3,167,824, 2-2-65, Cl. 20-69.
- Berwick, John D., Jr., to Scorrill Mfg. Co. Continuous casting mold. 3,210,812, 10-12-65, Cl. 22-57.2.
- Berwick, Lewis H. Combination cushion and life jacket. 3,225,369, 12-28-65, Cl. 9-333.
- Beryllium Corp.: See—
- Hanson, Philip S., and Saxtan. 3,166,410.
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- Scherbner, Paul J., and Saxtan. 3,201,234.
- Berzatzky, Paul G. Stable grip tennis racket handle. 3,203,697, 8-31-65, Cl. 273-75.
- Berzinski, Leo C., Jr., R. J. Byrnes, and C. E. Ruoff, to International Business Machines Corp. Signal muting circuit for data transmission systems. 3,174,102, 3-16-65, Cl. 325-52.
- Bescher, Ralph H., to Koppers Co., Inc. Method of pre-seasoning green or partially seasoned wood. 3,199,211, 8-10-65, Cl. 34-9.5.
- Bescher, Ralph H., to Koppers Co., Inc. Process for impregnating wood with pentachlorophenol and composition therefor. 3,200,003, 8-10-65, Cl. 117-59.
- Bescher, Roland L.: See—
- Reed, David S., Dickey, and Bescher. 3,164,092.
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- Field, Philip M. 3,179,438.
- Field, Philip M. 3,190,174.
- Field, Philip M., and Mandel. 3,207,029.
- Besenick, William N., to Burroughs Corp. Ribbon re-inker including helically grooved applicator roll. 3,209,725, 10-5-65, Cl. 118-204.
- Besler, George D.: See—
- Hesslon, John W., Jr. 3,200,535.
- Besley-Welles Corp.: See—
- Welles, Donald P., Jr., and Hill. 3,167,860.
- Bespak Industries Ltd.: See—
- Walls, John P. 3,214,063.
- Bespalko, Stephen, J. R. Evans, and R. J. Klotz, to International Business Machines Corp. Free access control. 3,219,979, 11-23-65, Cl. 340-172.5.

- Bespalov, Nickolay G.: See—
- Novikov, Ivan N., Golovanov, Bespalov, Shilov, and Starostin. 3,164,263.
- Bess, Henry F., to Weyerhaeuser Co. Carton. 3,215,332, 11-2-65, Cl. 229-19.
- Bess, Leon. Radiation dosimeter circuit. 3,185,844, 5-25-65, Cl. 250-83.3.
- Besse, Louis L. Reversible roof tiles. 3,220,150, 11-30-65, Cl. 52-538.
- Besser Co.: See—
- Simmons, Maynard E. 3,217,348.
- Besser, Joseph R. Equipment for cleaning engine cooling systems. 3,216,430, 11-9-65, Cl. 134-102.
- Besserich, Orrin H., to FMC Corp. Apparatus for and method of sealing the ends of wound rolls of sheet material. 3,172,612, 3-9-65, Cl. 242-56.
- Bessette, Georges H. Constant angle adjustable yoke for stall divisions. 3,166,045, 1-19-65, Cl. 119-27.
- Bessiere, Pierre Etienne, to Societe Anonyme pour l'Exploitation des Procédes Chimiques et Physiques. Pumps, and in particular fuel injection pumps having opposed pistons and a rotary distributing element. 3,168,042, 2-2-65, Cl. 103-2.
- Bessler, Alfred, H. Rabe, H. Döbelstein, and H. von Ey, to Alfred Teves Maschinen- und Armaturenfabrik K.G. Spot type disk brake. 3,199,635, 8-10-65, Cl. 188-73.
- Bessler, William E. Fishing lure. 3,220,139, 11-30-65, Cl. 43-12.02.
- Besso, Michael M., to Chas. Pfizer & Co., Inc. Tin salts of citric acid and method of preparation. 3,213,120, 10-19-65, Cl. 260-429.7.
- Besson, René, to Ebauches S.A. Electric timepiece. 3,200,578, 8-17-65, Cl. 58-23.
- Best, Albert M., to Sperry Rand Corp. Silo unloader. 3,193,117, 7-6-65, Cl. 214-17.
- Best, Chris E., to The Firestone Tire & Rubber Co. Three-component catalyst for olefin polymerization containing alkali metal sulfide, titanium halide and tetrakis (dihydrocarbonamino) silane. 3,196,138, 7-20-65, Cl. 260-63.7.
- Best, Chris E., to The Firestone Tire & Rubber Co. Polymerization process and catalysts. 3,196,139, 7-20-65, Cl. 260-93.7.
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- Best, Frank E. Interchangeable lock cores. 3,206,959, 9-21-65, Cl. 70-373.
- Best, Frank E. Hotel indicator lock. 3,210,975, 10-12-65, Cl. 70-432.
- Best, Frank E. Cylindrical lock. 3,210,976, 10-12-65, Cl. 70-451.
- Best, Frank S., to Great Bear Spring Co. Water cooler apparatus. 3,170,307, 2-23-65, Cl. 62-188.
- Best, George C., to Hawker Siddeley Canada Ltd. Closed cycle gas turbine. 3,224,199, 12-21-65, Cl. 60-59.
- Best, Harold A. Precast concrete step. 3,216,160, 11-9-65, Cl. 52-189.
- Best, John H., & Sons, Inc.: See—
- Best, Leon H. 3,195,733.
- Best, Leon H. 3,207,319.
- Best, John L. Rotary apparatus for clearing furrows. 3,167,899, 2-2-65, Cl. 56-25.4.
- Best, John S., to The Dow Chemical Co. Apparatus for cutting sheet material. 3,174,368, 3-23-65, Cl. 82-50.
- Best, Kenneth J., and L. W. Triefel, to Westinghouse Electric Corp. Control for feeding measuring and cutting strip material. 3,177,749, 4-13-65, Cl. 83-208.
- Best, Kenneth R., P. E. Scovell, and G. R. Godfrey, to The Distillers Co. Ltd. Beer dispensing apparatus. 3,216,627, 11-9-65, Cl. 222-249.
- Best, Leon H., to John H. Best & Sons, Inc. Clasp. 3,195,733, 7-20-65, Cl. 211-45.
- Best, Leon H., to John H. Best & Sons, Inc. Display rack for sheet type articles. 3,207,319, 9-21-65, Cl. 211-48.
- Best, Lester D. Car suit carrier. 3,181,754, 5-4-65, Cl. 224-29.
- Best, Melvin H.: See—
- Axtell, Willard G., Best, and Samhammer. 3,198,299.
- Best, Melvin H. Cordless dictating machine. 3,218,080, 11-16-65, Cl. 274-17.
- Best, Peter, to International Standard Electric Corp. Bonding of metals to ceramic materials. 3,203,084, 8-31-65, Cl. 29-473.1.
- Best, Stanley G., to United Aircraft Corp. Flow regulating means in aircraft air conditioning and pressurizing system. 3,207,422, 9-21-65, Cl. 230-10.
- Best, Theodore R., Jr., to Foster Wheeler Corp. Vapor generator. 3,166,909, 1-26-65, Cl. 60-73.
- Beste, Lawrence F., to E. I. du Pont de Nemours and Co. Stable polymeric dispersions. 3,185,660, 5-25-65, Cl. 260-34.2.
- Bester, Karl. Transducer assembly for transformation of small forces into pneumatic pressures. 3,183,918, 5-18-65, Cl. 137-85.
- Bestools, Inc.: See—
- Elfsten, Robert H. 3,175,281.
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- Beszedics, Geza: See—
- Bayer, Rudolf, and Beszedics. 3,175,045.
- Beszedics, Geza, and R. Konecny, to International Standard Electric Corp. Loudspeaking intercommunication systems. 3,215,780, 11-2-65, Cl. 179-1.
- Beta Aluminum Products Ltd.: See—
- Beards, Samuel F. 3,205,541.
- Betcher, Charles F., to Dayton Aircraft Products, Inc. Antenna mast means having elastomeric seal between antenna and transmission line feed. 3,184,745, 5-18-65, Cl. 343-705.
- Bete Fog Nozzle, Inc.: See—
- Bete, John U. 3,196,527.
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- Beteiligungs- und Patentverwaltungsgesellschaft mit beschränkter Haftung: See—
- Adler, Otto E. 3,165,095.
- Engel, Georg. 3,226,050.
- Fezer, Eberhard, Frese, Hejj, Simon, Schmid, and Einbeck. 3,208,666.
- Hejj, Erwin, Fezer, and Frese. 3,213,714.
- Hofmann, Fritz J., and Hess. 3,188,065.
- Kluge, Charlotte. 3,205,663.
- Sixel, Gustav-Adolf. 3,198,869.
- Betensky, Ellis I., to Bausch & Lomb Inc. Modified petzval type photographic objective. 3,185,033, 5-25-65, Cl. 88-57.
- Betensky, Ellis I., and N. Rickless, to Bausch & Lomb Inc. Symmetrical projection objective. 3,185,031, 5-25-65, Cl. 88-57.
- Betensky, Ellis I., and N. Rickless, to Bausch & Lomb Inc. Four component symmetrical projection objective. 3,221,601, 12-7-65, Cl. 88-57.
- Bethia Co., Inc.: See—
- McWhirter, Carson H. 3,218,009.
- Bethell, James R., D. J. Hadley, and B. Wood, to The Distillers Co. Ltd. Stannic oxide-antimony tetroxide catalyst composition. 3,198,751, 8-3-65, Cl. 252-461.
- Bethke, Lyman W., to United Aircraft Corp. Battery charger with independent reference source of voltage. 3,176,210, 3-30-65, Cl. 320-40.
- Bethke, Lyman W., to United Aircraft Corp. Radio electrocardiograph apparatus. 3,195,534, 7-20-65, Cl. 128-2.06.
- Bethke, Raymond W., to McGraw-Edison Co. High voltage circuit breakers with contact pressure boosters and arcing contacts. 3,177,332, 4-6-65, Cl. 200-170.
- Bethlehem Steel Co.: See—
- Cherney, Alois F., and Rohrs. 3,198,159.
- Costenbader, Earl A., and Durkin. 3,186,471.
- Galloway, James M. 3,193,971.
- James, Owen W., and Waters. 3,200,629.
- Jindras, Henry L. 3,172,758.
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- Mayer, Edward H. 3,215,566.
- Melloy, George F., Dannison, and Fischer. 3,173,782.
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- Trotta, Anthony J., and Sudrabin. 3,197,250.
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- Worthen, Eugene P., and Soderjerna. 3,212,241.
- Betinis, Emanuel J. Swing recorder. 3,173,348, 3-16-65, Cl. 95-11.
- Betjemann, Christopher, to Isbrandtsen Co., Inc. Combination shipping container and showcase. 3,182,424, 5-11-65, Cl. 50-80.
- Bett, Harry, and I. Lerner, to Abraham Verman. Plastic lined pajama. 3,180,336, 4-27-65, Cl. 128-288.
- Bettcher Industries, Inc.: See—
- Bettcher, Louis A. Re. 25,947.
- Bettcher, Louis A., to Bettcher Industries, Inc. Trimming and slicing device. Re. 25,947, 12-14-65, Cl. 30-276.
- Better Packages, Inc.: See—
- Krueger, Theodore H. 3,185,363.
- Sharpe, Everett E. 3,176,563.
- Betteridge, Walter, and H. C. Angus, to The International Nickel Co., Inc. Process for securing a conductor to a semiconductor. 3,186,084, 6-1-65, Cl. 29-472.9.
- Betteridge, Walter, and B. Taylor, to The International Nickel Co., Inc. Process for making workable ruthenium and product thereof. 3,194,657, 7-13-65, Cl. 75-172.
- Betterton, Jesse O., Jr.: See—
- Kneip, George D., Jr., Betterton, Easton, and Scarbrough. 3,215,569.
- Bettini, Franco, to Fida S.p.A. Dispenser for cylindrical articles and the like e.g. bottles and cans. 3,211,328, 10-12-65, Cl. 221-67.
- Bettoli, Phillip S.: See—
- Davis, Duane A., and Bettoli. 3,217,870.
- Bettoni, Eugene C., and E. R. Larges, to Holley Carburetor Co. Distributor mechanism with easily movable breaker plate. 3,207,864, 9-21-65, Cl. 200-31.
- Betts, Donald E.: See—
- Crowley, Allen E., and Betts. 3,209,742.
- Betts, John F., P. A. Michaels, and W. G. Wolber, to The Bendix Corp. Voltage controlled oscillator. 3,187,272, 6-1-65, Cl. 331-144.
- Betts, Kenneth R., to General Motors Corp. Three-way seat assembly. 3,198,573, 8-3-65, Cl. 296-69.

- Betta Machine Co.: See—
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- Betts, Max W., and M. Akhtar, to Courtaulds Ltd. Estimate of hop bitter substance in beer. 3,212,854, 10-19-65, Cl. 23-230.
- Betts, Maseppa D., to Sylvania Electric Products, Inc. Sealed inductor. 3,226,664, 12-28-65, Cl. 336-96.
- Betts, Peter, to International Business Machines Corp. Matrix positioning device. 3,186,317, 6-1-65, Cl. 95-4.5.
- Betts, Robert, to International Business Machines Corp. Multiperture-core logic circuit. 3,188,480, 6-8-65, Cl. 307-88.
- Betts, William M., and R. C. Requa. Mufflers for marine engines. 3,176,791, 4-8-65, Cl. 181-52.
- Bettuzzi, Giovanni. Case for electromechanically shiftable representation. 3,226,173, 12-28-65, Cl. 312-223.
- Betz, Bernard K., to Honeywell Inc. Timing pulse circuit employing cascaded gated monostables sequenced and controlled by counter. 3,214,695, 10-26-65, Cl. 328-63.
- Betz, Erich, to Chr. Wandel, K.G. Apparatus for straining suspensions of solid particles. 3,193,097, 7-6-65, Cl. 209-287.
- Betz Laboratories, Inc.: See—
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Kahler, Harry L., and Brown. 3,184,407.
Kahler, Harry L., and Zerby. 3,188,289.
- Betzler, Richard F. Typewriter impression control. 3,224,547, 12-21-65, Cl. 197-183.
- Benchat, Georges. Swimmer's foot-fin with thrust-accelerating device. 3,183,529, 5-18-65, Cl. 9-309.
- Beuchle, Friedrich, and C. Press, to Alfred Teves, Maschinen- und Armaturenfabrik Kommandit-Gesellschaft. Self-energizing disk brake. 3,207,267, 9-21-65, Cl. 188-73.
- Beuglin, Michel, to North American Philips Co., Inc. Automatic speed changer for a record player. 3,220,735, 11-30-65, Cl. 274-9.
- Beul, Albert, to Limburger Eisengieserei und Maschinenfabrik Theodor Ohl K.G. Apparatus for mixing a plurality of different pourable particulate materials. 3,194,384, 7-13-65, Cl. 198-53.
- Beumer, John, Jr.: See—
Wheeler, Robert N., and Beumer. 3,171,903.
- Beurel, Guy L. M. Sheet metal sectional gate valves. 3,224,729, 12-21-65, Cl. 251-327.
- Beurle, Raymond L., to English Electric Valve Co. Ltd. Cathode ray tube auxiliary deflection systems. 3,210,598, 10-5-65, Cl. 315-27.
- Beurthelet, Charles A. E., to Compagnie Francaise Thomson-Houston. Magnetic coil and core structure. 3,166,727, 1-19-65, Cl. 336-57.
- Beurthelet, Charles A. E., to Compagnie Francaise Thomson-Houston. Oscillation generating system. 3,192,354, 6-29-65, Cl. 219-10.77.
- Beurthelet, Charles A. E., to Compagnie Francaise Thomson-Houston. Heat dissipating structure. 3,196,936, 7-27-65, Cl. 165-47.
- Beusman, Curtis C.: See—
Marwell, Edward M., and Beusman. 3,208,639.
- Beusman, Curtis C., to Curtis Instruments, Inc. Electrolytic coulometric current integrating device. 3,193,763, 7-6-65, Cl. 324-94.
- Beutel, Ralph H., to Merck & Co., Inc. Preparation of pan-tothenamide. 3,194,836, 7-13-65, Cl. 260-561.
- Beutel, William F., to Martin-Marietta Corp. Flexible fuel bundle for continuously refueled nuclear reactors. 3,167,484, 1-26-65, Cl. 176-87.
- Beuter, Clyde R., and J. W. Brightman, to United Shoe Machinery Corp. Device for cutting and inserting locking elements into threaded fasteners. 3,203,041, 8-31-65, Cl. 18-1.
- Beuther, Harold: See—
Bercik, Paul G., Beuther, and Henke. 3,175,970.
- Beuther, Harold, R. A. Flinn, and B. K. Schmid, to Gulf Research & Development Co. Catalytic hydrogenation of viscous broken hydrocarbon oils. 3,193,487, 7-6-65, Cl. 208-68.
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- Bentler, Arthur A., to The New York Air Brake Co. Valve. 3,200,841, 8-17-65, Cl. 137-596.
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- Beverly, Olin C. Therapy bed. 3,218,067, 11-16-65, Cl. 272-58.
- Beverly, Rene V. Fishing float. 3,197,914, 8-3-65, Cl. 43-44.91.
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- Beyer, Stuart E. Thaw indicator. 3,220,259, 11-30-65, Cl. 73-358.
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- Bianca, Edoardo G. Vehicle parking lift platform with simultaneously movable dollies. 3,211,302, 10-12-65, Cl. 214-16.1.
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- Bieschke, Hillard J., to Knox Mfg. Co. Projection screen. 3,191,663, 6-29-65, Cl. 160-24.
- Biesecker, Donald L., to Illinois Tool Works Inc. Bushing with rib and shoulder means. 3,164,054, 1-5-65, Cl. 85-8.8.
- Biesecker, Donald L., to Illinois Tool Works Inc. Plastic roller. 3,164,418, 1-5-65, Cl. 308-3.8.
- Biesecker, Donald L., to Illinois Tool Works Inc. Antenna mounting clip. 3,182,329, 5-4-65, Cl. 343-702.
- Biesma, Louw A., to North American Phillips Co., Inc. Method of manufacturing cutting plates. 3,166,957, 1-26-65, Cl. 76-104.
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- Biff, Giulia, A. Grein, and C. Spalla, to Societa Farmaceutici Italia. Process for preparing cephalosporin C. 3,196,084, 7-20-65, Cl. 195-36.
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Kirby, Jack A. 3,224,822.
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- Bigelow, Eugene C., and C. M. Horton, to Western Electric Co., Inc. Combination wire wrap and unwrap tool. 3,212,536, 10-19-65, Cl. 140-124.
- Bigelow, Floyd E., Jr. Portable building and apparatus for the transportation and erection of the same. Re. 25,827, 8-3-65, Cl. 20-2.
- Bigelow, John H., to E. I. du Pont de Nemours and Co. Radiation-sensitive elements and their preparation. 3,178,293, 4-13-65, Cl. 96-108.
- Bigelow-Liptak Corp., The: See—
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- Bigelow-Sandford, Inc.: See—
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- Parlin, David B., and Gallagher. 3,203,388.
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- Biggam, Frank D.: See—
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- Biggar, Frank M., Jr. Sheet material folding method and apparatus. 3,170,685, 2-23-65, Cl. 270-68.
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- Bigge, Henry W. Extendable reach for tractor-trailer vehicles. 3,165,336, 1-12-65, Cl. 280-421.
- Biggers, Earl D.: See—
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- Biggi, Victor: See—
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- Biggle, Laurence C.: See—
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- Biggs, Albert J., and G. B. Townsend, to Hazeltine Research, Inc. Compensator for color-television receivers for chromaticity variations in ambient light. 3,200,193, 8-10-65, Cl. 178-5.4.
- Biggs, Robert W., to American Brake Shoe Co. Resin bonded friction composition product and method. 3,210,303, 10-5-65, Cl. 260-19.
- Biggs, William A., Jr., and C. K. Dunlap, Jr., to Sonoco Products Co. Spirally wound paper tube. 3,194,275, 7-13-65, Cl. 138-144.
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- Bigley, Clifford C., and A. E. Dahlquist, to Minneapolis-Moline, Inc. Spring applied brake control linkage. 3,190,401, 6-22-65, Cl. 188-167.
- Bigley, Clifford C., S. H. Cottrell, E. C. Fossum, and R. B. Singer, to Minneapolis-Moline, Inc. Lift truck fork operating control mechanism. 3,199,700, 8-10-65, Cl. 214-674.
- Bigler, John M., to Radio Corp. of America. Manufacture of electron tube cathodes. 3,166,836, 1-26-65, Cl. 29-420.5.

- Biglieri, Clyde E. Display and support rack for re-usable containers. 3,198,143, 8-3-65, Cl. 108-28.
- Biglin, Joseph M., and J. J. Greaves, to The Borden Co. Cold press method of making abrasive articles. 3,208,836, 9-28-65, Cl. 51-293.
- Bignall, Arthur G.: See—
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- Bignall, Arthur G., and L. P. Kumpf, to Lasalco Inc. Work transfer apparatus. 3,208,600, 9-28-65, Cl. 214-1.
- Bigo, Ernest H. P.: See—
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- Bigot, Johan A., and P. L. Kerkhoffs, to Stamicarbon N.V. Process for the oxidation of cycloalkane carboxylic acid. 3,219,689, 11-23-65, Cl. 260-514.
- Bikales, Norbert M., to American Cyanamid Co. Azo dyes and intermediates therefor. 3,211,718, 10-12-65, Cl. 260-197.
- Bikales, Norbert M., to American Cyanamid Co. Cyanovinyl dithiocarbamates. 3,211,771, 10-12-65, Cl. 260-455.
- Bikales, Norbert M., to American Cyanamid Co. Method of preparing β -mercaptopropionitrile. 3,211,777, 10-12-65, Cl. 260-465.1.
- Bikales, Norbert M., to American Cyanamid Co. Cyanoethyl alkylxanthate esters. 3,226,416, 12-28-65, Cl. 260-455.
- Bikales, Norbert M., to American Cyanamid Co. 2-cyanovinyl alkylxanthates. 3,226,417, 12-28-65, Cl. 260-455.
- Bikales, Norbert M., and R. B. Booth, to American Cyanamid Co. Flotation of sulfide ores. 3,223,238, 12-14-65, Cl. 209-166.
- Bikofsky, Henry L., B. J. Luberoff, R. N. Rickles, and J. V. Papazian, to Stauffer Chemical Co. Method of producing boron halides. 3,206,283, 9-14-65, Cl. 23-205.
- Bil, Milos Z., and W. H. Brunner, to Clairol Inc. Blue anthraquinone dye. 3,168,441, 2-2-65, Cl. 167-88.
- Bilancia, Raymond A., to Coach and Car Equipment Corp. Adjustable vehicle seat. 3,189,312, 6-15-65, Cl. 248-394.
- Biland, Hans R., and M. Duennenberger, to Ciba Ltd. Oxalic acid-bis-hydroxy aryl amides as ultraviolet stabilizers for organic plastic compositions. 3,211,562, 10-12-65, Cl. 106-186.
- Biland, Hans-Rudolf: See—
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- Bilbrey, Robert A., to B. W. West, d.b.a. California Controls Co. Visual indicator. 3,181,496, 5-4-65, Cl. 116-70.
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- Bilek, Frank T., to International Telephone and Telegraph Corp. Wire spring pushbutton assembly. 3,205,318, 9-7-65, Cl. 200-5.
- Bilger, Xavier F., to Etablissements Kuhlmann. Reaction products of polymeric phosphonitrile chlorides with ammonia and methanol. 3,193,571, 7-6-65, Cl. 260-461.
- Bilichniansky, Theodore: See—
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Isreeli, Jack, and Bilichniansky. 3,165,693.
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- Biller, George J., Jr., to Hawthorn Co., a division of Kellwood Co. Tents. 3,182,672, 5-11-65, Cl. 135-5.
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- Billeter, Henry R., and J. R. Swartz, to Sloan Valve Co. Adjustable plumbing fittings. 3,201,153, 8-17-65, Cl. 285-350.
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- Billhorn, Paul G. Adjustable hog crate. 3,195,513, 7-20-65, Cl. 119-99.
- Billi, Walter, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Absorption refrigerating system. 3,183,680, 5-18-65, Cl. 62-112.
- Billi, Walter, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Furnace apparatus for producing acetylene from methane. 3,201,204, 8-17-65, Cl. 23-277.
- Billi, Walter, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process and apparatus for modifying and determining the optimum volume of the operating reaction chamber in ovens employed for the production of acetylene form hydrocarbons. 3,220,803, 11-30-65, Cl. 23-277.
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- Billocq, Georges A., to Morano Ltd. Feed regulating apparatus for logs or the like. 3,214,000, 10-26-65, Cl. 198-33.
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- Binder, Richard, to Fichtel & Sachs A.G. Clutch disk. 3,180,470, 4-27-65, Cl. 192-107.
- Binder, Robert, to Dr. Ing. Porsche, h.c.F., K.G. Vehicle heating installation. 3,207,440, 9-21-65, Cl. 237-12.3.
- Binder, Robert, to Dr. Ing. Porsche, h.c.F., K.G., Firma. Cam shaft drive arrangement for internal combustion engines. 3,225,610, 12-28-65, Cl. 74-56.
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- Bindler, Jakob, and E. Model, to Geigy Chemical Corp. Antimicrobial compositions and use thereof. 3,223,547, 12-14-65, Cl. 106-316.
- Bindler, Jakob, and E. Model, to Geigy Chemical Corp. Antimicrobial compositions and use thereof. 3,223,582, 12-14-65, Cl. 167-30.
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- Bing, Herbert A., P. L. Finelli, and F. T. Gianino, to Polaroid Corp. Camera apparatus for exposing and processing photographic film. 3,207,052, 9-21-65, Cl. 95-11.5.
- Bing, Herbert A., and R. A. Malerbl, to Polaroid Corp. Photographic range and viewfinder. 3,221,627, 12-7-65, Cl. 95-44.
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- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a spiked, waterproof shoe. 3,187,073, 6-1-65, Cl. 264-255.
- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making waterproof boots by slush-molding. 3,198,864, 8-3-65, Cl. 264-250.
- Bingham, John D., to Henry Simon, Ltd. Fitted sieve frames. 3,193,098, 7-6-65, Cl. 209-404.
- Bingham, Kenneth C. A., P. J. Peoples, and M. Williams, to The General Electric Co. Ltd. Memory devices including crossed conductors in the presence of field modifying elements. 3,219,984, 11-23-65, Cl. 340-174.
- Bingham, Samuel H., Jr., to Black Products Co. Flying target for trap shooting. 3,169,767, 2-16-65, Cl. 273-105.4.
- Bingham, Sidney H. Rubber tired railway truck and guiding device. 3,208,400, 9-28-65, Cl. 104-120.
- Bingham, Sidney H. Railroad and rapid transit car and undercarriage suspension system. 3,208,402, 9-28-65, Cl. 105-133.
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- Binstock, Martin H., and H. E. Kilne, to United States of America, Atomic Energy Commission. Uranium base alloy. 3,170,788, 2-23-65, Cl. 75-122.7.
- Blintz, Louis J., to Norris-Thermador Corp. Flame arrestor for crankcase ventilating apparatus. 3,182,647, 5-11-65, Cl. 123-119.
- Blintz, Louis J., to Norris-Thermador Corp. Fire check and cold start control device for crankcase ventilator. 3,225,753, 12-28-65, Cl. 123-119.
- Binzoni, Emilio M., E. W. Rosenthal, G. T. Gonzales, W. L. Poland, and G. D. Cerf, to Sperry Rand Corp. Document feeder. 3,173,684, 3-16-65, Cl. 271-57.
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- Birch, Clifford W., to Birch Bros., Inc. Chain cutter for web materials. 3,199,393, 8-10-65, Cl. 83-563.
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- Bird, Arthur P. Cover for upholstered seats. 3,220,768, 11-30-65, Cl. 297-223.
- Bird, Forrest M., and H. L. Pohndorf. Nebulizer. 3,172,406, 3-9-65, Cl. 128-194.
- Bird, Forrest M., and H. L. Pohndorf. Respirator. 3,191,596, 6-29-65, Cl. 128-29.
- Bird, Gordon S., Jr., to Sanborn Mortgage and Finance Co. Heat exchanger. 3,200,601, 8-17-65, Cl. 62-3.
- Bird, Jack R., G. W. Meetham, and M. A. Wheeler, to Rolls-Royce Ltd. Nickel chromium base alloy products. 3,222,165, 12-7-65, Cl. 75-171.
- Bird, Joseph G., to Sterling Drug Inc. Aqueous radiopaque solutions containing sodium and calcium ions. 3,175,952, 3-30-65, Cl. 167-95.
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- Bird, Merrill S. Animal cage feeding device. 3,185,133, 5-25-65, Cl. 119-18.
- Bird, Merrill S. Ballast element. 3,185,255, 5-25-65, Cl. 188-1.
- Bird, Richard C., and T. S. Stafford, to International Business Machines Corp. Data system with aperiodic synchronization. 3,208,050, 9-21-65, Cl. 340-172.5.
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- Bisberg, Arthur, to Flow Corp. Fluid-flow force and/or direction measuring apparatus and method. 3,212,329, 10-19-65, Cl. 73-189.
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- Black, David G., Jr., to Mosaic Fabrications, Inc. Optical image transfer device. 3,194,142, 7-13-65, Cl. 95-75.
- Black and Decker Mfg. Co., The: See—
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- Black, Dolphus H. Fluid transporting system. 3,197,087, 7-27-65, Cl. 222-386.5.
- Black, Donald H., to United States of America, Secretary of War. Smokeless powder manufacture. 3,205,286, 9-7-65, Cl. 264-3.
- Black, Douglas E., 22½% to J. B. Ledford, 22½% to Q. R. Ford, and 5% to J. J. Bangora. Method of repairing plastic pipe. 3,171,419, 3-2-65, Cl. 137-15.
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- Black, Henry. Toy water pistol. 3,202,318, 8-24-65, Cl. 222-39.
- Black, Hugh R., to H. R. Black, Co. Filter apparatus. 3,197,030, 7-27-65, Cl. 210-400.
- Black, Hugh R., to H. R. Black, Co. Endless belt filter. 3,225,928, 12-28-65, Cl. 210-121.
- Black, James B., and M. W. Dundore, to Twin Disc Clutch Co. Hydrodynamic retarder. 3,171,513, 3-2-65, Cl. 188-90.
- Black, James C. W., K. T. Lawson, and P. W. Dobson, to The British Iron and Steel Research Association. Fluid cushioning systems. 3,197,339, 7-27-65, Cl. 134-15.
- Black, James F., and J. Mackinnon, to Esso Research and Engineering Co. Hydrocarbon moderator-coolants for nuclear reactors. 3,178,357, 4-13-65, Cl. 176-50.
- Black, James J., to Pullman Inc. Valving system for a vessel having a plurality of compartments. 3,187,766, 6-8-65, Cl. 137-267.
- Black, James J., to Pullman Inc. Plug door. 3,204,299, 9-7-65, Cl. 20-23.
- Black, James J., and F. V. Roy, to Pullman Inc. Method of fabricating self-sustaining vessels. 3,187,425, 6-8-65, Cl. 29-469.
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- Black, John W., Jr. Rotary speed differential mechanism. 3,205,731, 9-14-65, Cl. 74-785.
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- Black, Richard W. Mobile air supported vehicle. 3,170,530, 2-23-65, Cl. 180-7.
- Black, Robert B. Pulse jet engine. 3,177,663, 4-13-65, Cl. 60-39.77.
- Black, Robert J., to American Bosch Arma Corp. Fluid density and viscosity sensor and control. 3,215,185, 11-2-65, Cl. 158-36.
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- Black, Stanley H., D. Littler, and P. G. Smith, to Sperry Rand Corp. Frequency modulated continuous wave navigation radar. 3,197,773, 7-27-65, Cl. 343-9.
- Black, Stewart L., T. L. Hanson, and B. G. Nail, to The Vendo Co. Apparatus for preparing and discharging water having controlled amounts of carbonation. 3,226,099, 12-28-65, Cl. 261-35.
- Black, Warren R., to American Seating Co. Cabinet. 3,164,431, 1-5-65, Cl. 312-282.
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- Black, Warren R., and R. L. Knapp, to American Seating Co. Hospital bed. 3,217,339, 11-16-65, Cl. 5-63.
- Black, William A. P., E. T. Dewar, and D. Rutherford, to United States of America, Agriculture. Carbohydrate derived polyamides. 3,225,012, 12-21-65, Cl. 260-78.
- Black, William B., to Monsanto Co. Acrylimide monomers and their polymers. 3,174,955, 3-23-65, Cl. 260-85.5.
- Black, William B., to Monsanto Co. Halo-silanes as activators for the polymerization of pyrrolidone. 3,180,855, 4-27-65, Cl. 260-78.
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- Black, William T., D. L. Bailey, and V. B. Jex, to Union Carbide Corp. Organosiloxane-polyoxyalkylene ether copolymers. 3,168,543, 2-2-65, Cl. 260-448.2.

- Blackaby, Benjamin E., to The De Havilland Aircraft Co., Ltd. Coordinated engine load and fuel control system. 3,180,425, 4-27-65, Cl. 170—135.74.
- Blackaby, Benjamin E., to The De Havilland Aircraft Co., Ltd. Engine control systems. 3,203,179, 8-31-65, Cl. 60—39.28.
- Blackaby, Benjamin E., to The De Havilland Aircraft Co. Ltd. Magnetic amplifier engine control system. 3,213,288, 10-19-65, Cl. 307—75.
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- Blackburn, Alan B., to General Motors Corp. Permanent magnet rotor. 3,221,194, 11-30-65, Cl. 310—156.
- Blackburn, Alan P., and E. E. Miles, to The General Electric Co. Ltd. Manufacture of phosphor suspensions. 3,165,269, 1-12-65, Cl. 241—30.
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- Blackburn, Andrew R., R. E. Steele, and H. H. Dawson, to The Murray Corp. Ware production from moist plastic material. 3,178,493, 4-13-65, Cl. 264—86.
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- Blackhurst, Homer T., C. C. Singletary, and A. S. Nemec. Mulching and seeding apparatus. 3,204,589, 9-7-65, Cl. 111—91.
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- Blackman, Calvin C., J. J. Sims, and R. H. Jelinek, to Lee Wilson Engineering Co., Inc. Strip handling apparatus. 3,218,000, 11-16-65, Cl. 242—78.1.
- Blackman, Peter, and J. P. Conbere, to I.C.I./Organics/Inc. Plasticized urea-formaldehyde resins. 3,174,943, 3-23-65, Cl. 260—33.2.
- Blackman, Seymour N. Glass thermometer. 3,172,289, 3-9-65, Cl. 73—371.
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- Blackmer, Richard H., to United States of America, Navy. Hydrogen generating canister. 3,174,833, 3-23-65, Cl. 23—282.
- Blackmore, Fred N., to Lus-Trus Corp. Receptacle. 3,169,659, 2-16-65, Cl. 220—97.
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- Blackwood, Robert K., H. H. Rennhard, J. J. Beereboom, and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. New antibacterial agents. 3,165,551, 1-12-65, Cl. 260—559.
- Blackwood, Robert K., H. H. Rennhard, J. J. Beereboom, and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. 6-methylene-tetracycline derivatives. 3,183,267, 5-11-65, Cl. 260—559.
- Blackwood, Robert K., H. H. Rennhard, J. J. Beereboom, and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. 6-deoxy-tetracycline derivatives and process. 3,200,149, 8-10-65, Cl. 260—559.
- Blackwood, Robert R., and W. D. Cheesman, to Union Carbide Corp. Metal quenching medium. 3,220,983, 11-30-65, Cl. 148—28.
- Blackwood, William R., to Consolidated Cigar Corp. Article feeding apparatus. 3,200,930, 8-17-65, Cl. 198—24.
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- Blaha, Emil, to Selas Corp. of America. Method of furnace operation. 3,212,554, 10-19-65, Cl. 158—7.6.
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- Blahut, Edward J., A. F. Lichtenfeld, deceased, by H. Lichtenfeld, executrix. Grinding wheel refacer. 3,213,845, 10-26-65, Cl. 125—11.
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- Blain, Normand A.: See—
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- Blaine, Arthur C.: See—
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- Blaine, John C., to Libbey-Owens-Ford Glass Co. Method and apparatus for feeding batch materials to a glass-melting furnace. 3,193,119, 7-6-65, Cl. 214—23.
- Blaine, John C., to Libbey-Owens-Ford Glass Co. Apparatus for delivering fusible material to a glass melting furnace. 3,219,209, 11-23-65, Cl. 214—35.
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- Blair, Arthur R. Panel cover quick-acting latch. 3,179,455, 4-20-65, Cl. 292—65.
- Blair, Boyd C., to Brackett Stripping Machine Co., Inc. Re-binding grinder. 3,188,667, 6-15-65, Cl. 11—1.
- Blair, Boyd C., to Brackett Stripping Machine Co., Inc. Vibratory impression producing apparatus and film holder therefor. 3,188,687, 6-15-65, Cl. 18—1.
- Blair, Calvin B. Self loading and unloading vehicle. 3,186,567, 6-1-65, Cl. 214—510.
- Blair, Calvin B. Bale handling head. 3,208,612, 9-28-65, Cl. 214—144.
- Blair, Demoady: See—
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- Blair, Douglas H., to Oregon Metallurgical Corp. Process for making sheet from brittle metals. 3,174,221, 3-23-65, Cl. 29-528.
- Blair, Edgar A., to Sun Oil Co. Preparation of formaldehyde. 3,184,512, 5-18-65, Cl. 260-604.
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- Blair, Harold. Reinforced ring of resinous material. 3,219,503, 11-23-65, Cl. 156-148.
- Blair, Harold, and J. F. Olsen, to Crane Packing Co. V packing with insert and method of making same. 3,171,661, 3-2-65, Cl. 277-205.
- Blair, Harold R., and T. W. Robbins, to Western Electric Co., Inc. Apparatus for supporting terminals. 3,174,744, 3-23-65, Cl. 269-24.
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Work, Josiah, Joseph, and Blake. 3,184,397.
- Blake, Julian H., to Ray Winther Co. Refrigeration system. 3,184,926, 5-25-65, Cl. 62-155.
- Blake, Leslie R., to United Kingdom Atomic Energy Authority. Reactor control by spacing of fuel. 3,180,799, 4-27-65, Cl. 176-21.
- Blake, Leslie R., to United Kingdom Atomic Energy Authority. Fast nuclear reactor fuel elements. 3,184,392, 5-18-65, Cl. 176-67.
- Blake, Leslie R., to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,189,101, 6-15-65, Cl. 176-72.
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- Blake, Minden V. Practice club including pivotally mounted weight and latching member. 3,172,668, 3-9-65, Cl. 273-186.
- Blake, Norman W., deceased (by B. B. Blake, administratrix), and C. C. Natale, to Eastman Kodak Co. Surface modification of zinc oxide and electro-photographic member therefrom. 3,197,307, 7-27-65, Cl. 96-1.
- Blake, Steve P., to United States Steel Corp. Apparatus for automatically positioning and starting a wire fabric coiling device. 3,206,136, 9-14-65, Cl. 242-78.1.
- Blake, William T., to Tew Mfg. Co. Sizing and grading machine. 3,206,024, 9-14-65, Cl. 209-804.
- Blake, William T. Railway car draft appliance. 3,207,324, 9-21-65, Cl. 213-8.
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- Blakely, John W. Swivel. 3,204,990, 9-7-65, Cl. 285-164.
- Blakely, Robert T., to International Business Machines Corp. Proportional space recording devices. 3,204,540, 9-7-65, Cl. 95-4.5.
- Blakeman, Edmund H. Low flow meter for liquids. 3,192,769, 7-6-65, Cl. 73-251.
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- Blakistone, James T., and D. L. Burdorf, to Leach Corp. Tape transport. 3,184,132, 5-18-65, Cl. 226-181.
- Blahcato, Virgil. Plier fenders. 3,173,270, 3-16-65, Cl. 61-48.
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- Blanchard, Floyd W. Pressurized containers. 3,212,678, 10-19-65, Cl. 222-95.
- Blanchard, Harry S., and H. L. Finkbeiner, to General Electric Co. Process for oxidizing phenols to polyphenyl ethers and diphenolquinones. 3,219,625, 11-23-65, Cl. 260-47.
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- Blanchard, Roger H.: See—
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- Blanchard, Roger M. Trampoline type bouncer toy. 3,167,312, 1-26-65, Cl. 272-57.
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- Blanchenot, John P., to International Telephone and Telegraph Corp. Mating electrical pin and socket contacts and insulator therefor. 3,200,367, 8-10-65, Cl. 339-198.
- Blanchet, Andre F., to S.A.T.A.M. Societe Anonyme pour tous Appareillages Mecaniques. Counter drum lighting device. 3,215,826, 11-2-65, Cl. 240-2.1.
- Blanchet, Lucien. Mixed type terminal supports, and corresponding terminal bars. 3,201,747, 8-17-65, Cl. 339-198.
- Blanchette, Joseph R.: See—
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- Blanchin, Roger, and E. Tison, to Seailles & Tison. Type wheel setting and locking means in line composition. 3,196,782, 7-27-65, Cl. 101-93.
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- Blanco, Vincent J.: See—
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- Bland, Albert N., and J. Downs, to Automotive Products Co. Ltd. Clutches. 3,167,164, 1-26-65, Cl. 192-89.
- Bland, Maurice H., and E. Leetsch, to General Dynamics Corp. Power supply transfer circuit. 3,193,705, 7-6-65, Cl. 307-84.
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- Blanding, Leonard C., and C. H. Will, Jr., to Lear Siegler, Inc. Caging system for gyroscopic devices. 3,186,241, 6-1-65, Cl. 74-5.12.
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- Blank, Benjamin, and C. M. Greenberg, to Smith Kline & French Laboratories. Antihypercholesterolemic agents. 3,210,413, 10-5-65, Cl. 260-520.
- Blank, Charles E., Sr., to Ingersoll-Rand Co. Wrist pin assembly. 3,179,451, 4-20-65, Cl. 287-100.
- Blank, Edward, to Tobe Deutschmann Laboratories. Low inductance capacitor. 3,206,661, 9-14-65, Cl. 317-260.
- Blank, Fritz A., 1/2 to A. K. Livingston, and 1/2 to Longines-Wittnauer Watch Co., Inc. D.C. motor speed control and signalling system, particularly designed for motion picture cameras. 3,173,072, 3-9-65, Cl. 318-325.
- Blank, Hans G., to General Telephone and Electronics Laboratories, Inc. Electroluminescent-piezoelectric bar graph display system. 3,202,868, 8-24-65, Cl. 315-55.
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- Blanke, Rolf, and E. Gross, to Hans Schwarzkopf. 1-methyl-2-hydroxy-4-aminobenzene as a modifier for oxidation dyes. 3,210,252, 10-5-65, Cl. 167-88.
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- Blankenship, Homer, Jr. Syringe with upper and lower bores. 3,216,616, 11-9-65, Cl. 222-47.
- Blankenship, James L., to United States of America, Atomic Energy Commission. Method for producing P-I-N semiconductor. 3,212,940, 10-19-65, Cl. 148-1.5.
- Blankenship, James L. and E. F., to True-Line Corp. Concrete finishing apparatus. 3,164,072, 1-5-65, Cl. 94-45.
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- Blankschein, Leonard C., Jr., to Citiles Service Oil Co. Can aligning apparatus. 3,190,433, 6-22-65, Cl. 198-33.
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- Blatz, Paul E., to Socony Mobil Oil Co. Halogenated dehydro-polycyclopentadiene and its preparation. 3,220,993, 11-30-65, Cl. 260-93.1.
- Blau, Karl-Ludwig, A. Herr, J. Lintner, and O. Wilhelm, to Vinypal S.A. Method of producing highly filled compressed masses of fiber-like filler material and thermoplastic synthetic material and compressed bodies made of such compressed masses, particularly plates and laminations. 3,203,851, 8-31-65, Cl. 162-168.
- Blau, Theodore N., and S. Spell, to Johns-Manville Corp. Method of applying a free flowing insulating fill material. 3,176,354, 4-6-65, Cl. 20-101.
- Blaustein, Herbert D., and J. A. Pierce, to Radio Corp. of America. Switching circuit. 3,209,339, 9-28-65, Cl. 340-174.1.
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- Bleibtreu, Alexander, to Maschinenfabrik Reinhausen Gebrüder Scheubeck K.G. Modular tap-changing selector switch for connecting selectively fixed tap contacts to a transfer switch. 3,194,900, 7-13-65, Cl. 200-11.
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- Bleiweiss, Arthur F., G. Colombo, J. B. Dickson, and B. Orlov, to Signal-Stat Corp. 2-vane voltage compensated shunt flasher. 3,225,165, 12-21-65, Cl. 200-122.
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- Blenkle, Erwin, to Bochumer Eisenhutte Heintzmann & Co. Piston with sealing means. 3,166,993, 1-26-65, Cl. 92-181.
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- Blinn, Charles E., and G. Caryotakis, to Varian Associates. Method and apparatus for the broadbanding of power type velocity modulation electron discharge devices by interaction gap spacing. 3,210,593, 10-5-65, Cl. 315-5.43.
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3,195,515, 7-20-65, Cl. 122-34.
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paratus for docking vehicles. 3,224,709, 12-21-65, Cl.
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Co. Selective isomerization of neohexane. 3,215,753, 11-2-
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Bloch, Erich, and H. Gelernter, to International Business Ma-
chines Corp. Magnetic core memory. 3,223,984, 12-14-65,
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servative of oxygen-labile substances, e.g., foods. 3,169-
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ment yarns. 3,175,351, 3-30-65, Cl. 57-157.
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Bloch, Herman S., to Universal Oil Products Co. Alkylation-
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Bloch, Peter K., and E. A. Henry, to Branson Instruments,
Inc. Method and apparatus for ultrasonic weld inspection
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Honeywell Inc. Data processing apparatus. 3,183,488,
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ing apparatus for a printing machine. 3,209,684, 10-5-65,
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- Blochlinger, Hans, and R. Kauffungen, to Autophon Aktiengesellschaft. Frequency selection circuit, particularly for call receivers. 3,165,709, 1-12-65, Cl. 331-113.
- Block, Aleck, to Merit Products, Inc. Abrasive device. 3,188,777, 6-15-65, Cl. 51-337.
- Block, Aleck, to Merit Products, Inc. Flap-type abrasive wheel. 3,220,810, 11-30-65, Cl. 51-293.
- Block, Alfred E., to Block & Anderson Ltd. Method of producing duplicating master sheets. 3,183,833, 5-18-65, Cl. 101-149.4.
- Block & Anderson Ltd.: See—
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- Block, Arthur F., and J. Rychlik, to Dukane Corp. Operating circuit for a discharge type of transducer. 3,177,288, 4-6-65, Cl. 179-1.
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- Block, Burton P., L. R. Ocone, and J. Simkin, to Pennsalt Chemical Corp. Coordination polymers. 3,197,436, 7-27-65, Cl. 260-03.
- Block, Burton P., and J. Simkin, to Pennsalt Chemicals Corp. Inorganic polymer. 3,222,298, 12-7-65, Cl. 260-2.
- Block, Dale G.: See—
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- Block, Leo, to Transcold Corp. Refrigeration system. 3,209,814, 10-5-65, Cl. 165-14.
- Block, Leo, to Transcold Corp. Generator-fed A.C. motor control with convertible-pole motor and standby source. 3,226,619, 12-28-65, Cl. 318-106.
- Block, Leo, R. E. von Berg, and I. Rasovich, to Freightliner Corp. Refrigeration system. 3,167,930, 2-2-65, Cl. 62-190.
- Block, M. Sabel: See—
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- Block, William M., to Quaker Industries Inc. Combined table and rack unit. 3,207,093, 9-21-65, Cl. 108-16.
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- Goodwin, Herbert J. 3,210,628.
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- Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,171,390, 3-2-65, Cl. 122-478.
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- Bloom, Jan, to North American Phillips Co., Inc. Method of treating bodies of semiconductive material by chemically etching with an acid etching liquid. 3,194,703, 7-13-65, Cl. 156-17.
- Bloetscher, Frederick, J. O. Gibson, and W. B. Cross, to Good-year Aerospace Corp. Communication satellite and method for making same. 3,224,000, 12-14-65, Cl. 343-18.
- Blok, Dirk E., to Hunter Douglas International (Quebec) Ltd. Structural element. 3,199,260, 8-10-65, Cl. 52-476.
- Blok, Dirk E., to Hunter Douglas International (Quebec) Ltd. Structural element and a securing member for such element. 3,212,223, 10-19-65, Cl. 52-478.
- Blok, Lourens: See—
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- Blok, Lourens, and H. S. J. Pijls, to North American Phillips Co., Inc. Apparatus for the production of ultrasonic oscillations. 3,223,907, 12-14-65, Cl. 318-118.
- Blom, Roy A., to Potter Instrument Co., Inc. Tape handler apparatus. 3,179,318, 4-20-65, Cl. 228-196.
- Blomberg, Theodore G. Retaining assemblies. 3,187,400, 6-8-65, Cl. 24-257.
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Kimball, Philip D., and Blome. 3,198,657.
- Blomeyer, Walter, and G. Schneider, to Nukem Nuklear-Chemie und Metallurgie G.m.b.H. Fuel element for atomic reactors. 3,184,393, 5-18-65, Cl. 176-82.
- Blomfield, Rodney A., and J. J. Cramer, to Wyandotte Chemicals Corp. Antimicrobial laundry sour composition. 3,193,505, 7-6-65, Cl. 252-136.
- Blomgren, Evert: See—
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- Blomgren, Oscar C., Sr., and O. C. Blomgren, Jr., to Diamond Alkali Co. Pumping device. 3,216,617, 11-9-65, Cl. 222-64.
- Blomgren, Oscar C., Sr., E. G. Munck, S. R. Griffiths, Jr., and O. C. Blomgren, Jr., to Inter-Probe, Inc. Heat control device and method. 3,224,485, 12-21-65, Cl. 158-1.
- Blomgren, Oscar C., Sr., E. G. Munck, S. R. Griffiths, Jr., and O. C. Blomgren, Jr., to Inter-Probe, Inc. Method and apparatus for lowering the temperature of a heated body. 3,224,497, 12-21-65, Cl. 165-2.
- Blomquist, Albert E. Filtering apparatus and seal therefor. 3,173,868, 3-16-65, Cl. 210-445.
- Blomquist, Alfred T., and R. A. Vierling, to The B. F. Goodrich Co. 1,2-dimethylcyclobutenedione and method of preparation. 3,169,147, 2-9-65, Cl. 260-586.
- Blomquist, Arthur G., W. F. Heins, and M. C. Neuman, to FMC Corp. Panel locking mechanism for console type structures. 3,175,873, 3-30-65, Cl. 312-298.
- Blomquist, George B., Jr., to Swift Spinning Mills, Inc. Automatic stop for cards. 3,191,236, 6-29-65, Cl. 19-25.
- Blomquist, John A., 1/2 to New-Mark Builders, Inc. Electromagnetic reciprocating motor. 3,222,554, 12-7-65, Cl. 310-35.
- Blomstrom, Dale C., to E. I. du Pont de Nemours and Co. Polyimides from thiophene tetracarboxylic acid and diamines. 3,207,728, 9-21-65, Cl. 260-78.
- Blondeau, Emile, A. Douy, and H. Francois, to Commissariat a l'Energie Atomique. Atmospheric fall-out collector. 3,216,246, 11-9-65, Cl. 73-170.
- Blonder, David: See—
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- Blonder, Isaac S., to Blonder Tongue Electronics. Mast-mounting clip-and-bracket. 3,166,284, 1-19-65, Cl. 248-230.
- Blonder, Isaac S., to Blonder Tongue Electronics. Electrical coupler. 3,208,033, 9-21-65, Cl. 339-177.
- Blonder, Isaac S., and B. H. Tongue. Television receiver control using filter for carrier removal. 3,175,033, 3-23-65, Cl. 178-51.
- Blonder Tongue Electronics: See—
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- Sampson, Walter E. 3,176,368.
- Blondfield, Elwood F., to Beckman Instruments, Inc. Fluid sampling device. 3,206,982, 9-21-65, Cl. 73-421.5.
- Bloniarz, Richard M., to The Singer Co. Apparatus and method for the generation of pure quadrature signals. 3,184,681, 5-18-65, Cl. 324-83.
- Blonsky, Charlotte E.: See—
Blonsky, George B. and C. E. 3,216,423.
- Blonsky, George B. and C. E. Apparatus for facilitating the birth of a child by centrifugal force. 3,216,423, 11-9-65, Cl. 128-361.
- Blonsky, Joseph E., to West Virginia Pulp and Paper Co. Track support for pallet carrier. 3,216,520, 11-9-65, Cl. 180-9.24.
- Blood, Perley T. Adjustable finger depth control for bowling balls. 3,204,960, 9-7-65, Cl. 273-63.
- Blood, Peter B., to Isora Illuminating Ceilings Ltd. Ceilings or walls. 3,186,129, 6-1-65, Cl. 50-267.
- Bloodworth, Thomas H., to Allis-Chalmers Mfg. Co. Automatic gauge control. 3,169,421, 2-16-65, Cl. 80-35.
- Bloom, Arnold L.: See—
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- Bloom, David: See—
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- Bloom, Earl M., Jr., and T. L. Schappe, to International Business Machines Corp. Paper feed control apparatus. 3,176,819, 4-6-65, Cl. 197-133.
- Bloom Engineering Co., Inc.: See—
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- Conway, Leon F., and Rudin. 3,209,808.
- Bloom, Frank: See—
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- Bloom, George I.: See—
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- Bloom, Harry. Implement holder. 3,178,141, 4-13-65, Cl. 248-113.
- Bloom, Harry, to Bayshore Industries, Inc. Toy merry-go-round. 3,222,063, 12-7-65, Cl. 272-48.
- Bloom, Howard W., to Malco Electronics, Inc. Transistor amplifier. 3,179,894, 4-20-65, Cl. 330-25.
- Bloom, I. C.: See—
Goltz, Joseph. 3,182,856.
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- Bloom, Justin L., to Martin-Marietta Corp. Thermal neutron flux measuring device using two boron thermistors. 3,226,547, 12-28-65, Cl. 250-83.1.
- Bloom, Leonard, to The Black and Decker Mfg. Co. Automatically-applied friction braking means for a portable electric tool. 3,224,474, 12-21-65, Cl. 143-43.
- Bloom, Melvin S., and E. B. Towne, to Eastman Kodak Co. Azo compounds from aminoimidazoles. 3,213,080, 10-19-65, Cl. 260-155.
- Bloom, Morde M.: See—
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- Bloom, Mortimer C., M. Krulfeld, and G. N. Newport. Protective film formation in high pressure steam generators. 3,173,404, 3-16-65, Cl. 122-379.

- Bloom, Otto N. Three piece bobbin of dielectric material for electric coils. 3,215,005, 11-2-65, Cl. 317-158.
- Bloom, Robert E., and R. J. Fleischer, to Stoddard Aircraft Radio Co., Inc. R.F. bolometer bridge measuring circuit using substitutional bridge balance method. 3,200,331, 8-10-65, Cl. 324-108.
- Bloom, Roy M.: See—
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- Bloom, Stanley: See—
Berghammer, Johannes, and Bloom. 3,226,595.
- Bloom, Stanley, to United States of America, Army. Noise reduction of traveling-wave tubes by circuit refrigeration. 3,211,947, 10-12-65, Cl. 315-32.
- Bloomfield, Dennis G.: See—
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- Bloomfield, John J., 10.42% to W. P. Innes, Jr., 8.75% to B. S. Innes, 8.75% to W. P. Innes III, 8.75% to W. D. Innes, 6.67% to A. K. Phillips, 3.33% to H. P. Brown, 1.11% to A. W. Lander, 1.11% to J. W. Lavender, and 1.11% to D. W. Nye. Catalytic afterburner for internal combustion engines and the like. 3,220,179, 11-30-65, Cl. 60-30.
- Bloomington, Paul F., to The Coleman Co., Inc. Mounting assembly for refrigeration compressors. 3,208,700, 9-25-65, Cl. 248-20.
- Bloomquist, Evert V., and G. E. Material cutting machine. 3,195,594, 7-20-65, Cl. 146-78.
- Bloomquist, George W., to FMC Corp. Valve operating coupling. 3,193,069, 7-6-65, Cl. 192-88.
- Bloomquist, George W., to FMC Corp. Shut-off valve. 3,206,158, 9-14-65, Cl. 251-25.
- Bloomquist, Gerald E.: See—
Bloomquist, Evert V., and G. 3,195,594.
- Blone, James H., and B. J. Ward, to E. I. du Pont de Nemours and Co. Method and apparatus for laying in yarn on dial needles. 3,224,225, 12-21-65, Cl. 66-9.
- Blone, Thomas L., and H. J. Beckert, to Armco Steel Corp. Threaded tube joint having a metal-to-metal seal. 3,224,799, 12-21-65, Cl. 285-334.
- Bloss, Harold E., and G. E. Flurschutz, to The Air Preheater Corp. Circumferential turn-down seal for flexible sector plate. 3,208,509, 9-23-65, Cl. 165-9.
- Bloss, Werner H., to W. Kluge. Energy converter. 3,217,189, 11-9-65, Cl. 310-4.
- Bloudoff, Peter S., to Armco Steel Corp. Swab cup for oil well pump assemblies. 3,179,022, 4-20-65, Cl. 92-252.
- Blough, Ronald S., to Universal Producing Co. Shelf bag stabilizer. 3,184,273, 5-18-65, Cl. 312-6.
- Blough, Ronald S., to Fairfield Engineering and Mfg. Co. Apparatus for automatic weighing and distributing feed for livestock. 3,185,230, 5-25-65, Cl. 177-71.
- Bloun, Maurice A. Selective electrical programming device. 3,164,691, 1-5-65, Cl. 200-46.
- Blount, Charles, Jr., to The United Piece Dye Works. Apparatus for high temperature dyeing. 3,210,970, 10-12-65, Cl. 68-177.
- Blount, Lester L., to Gordon D. McMaude. Oxygen and inhalant mask. 3,182,659, 5-11-65, Cl. 128-205.
- Blount, Luther H. Power assist for vessel steering mechanism. 3,225,730, 12-28-65, Cl. 114-144.
- Blout, Elkan R., M. Green, H. G. Rogers, and M. S. Simon, to Polaroid Corp. Azo dye developers. 3,208,991, 9-28-65, Cl. 260-162.
- Blout, Elkan R., M. R. Cobler, M. Green, and R. B. Woodward, to Polaroid Corp. Anthraquinone derivatives containing an ortho- or para-dihydroxyphenyl-alkylamino substituent. 3,209,016, 9-28-65, Cl. 260-371.
- Blower Application Co.: See—
Panning, Martin H. 3,205,016.
- Blower, Warren A.: See—
Miller, Leon F., Blower, Hatch, and Ellms. 3,205,542.
- Blowers, George G.: See—
Welsby, Frank E., and Blowers. 3,179,525.
- Blouham, Robert, to Coast Mfg. and Supply Co. Selective oxidation depollution process and apparatus. 3,190,823, 6-22-65, Cl. 204-157.
- Blouaert, Felix, and E. Leblon, to Solvay & Cie. Process for the polymerisation and co-polymerisation of olefins. 3,214,417, 10-26-65, Cl. 260-88.2.
- Blubaugh, Frederick C.: See—
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- Blucher, Joseph T.: See—
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- Bluck, Raymond M., to TRW Inc. Method and apparatus for making a filament wound pressure vessel. 3,210,228, 10-5-65, Cl. 156-172.
- Blue, David M.: See—
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- Blue, Robert D., and R. J. Moolenaar, to The Dow Chemical Co. Cesium production. 3,201,229, 8-17-65, Cl. 75-66.
- Blueberry Equipment, Inc.: See—
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- Blue M Electric Co.: See—
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- Lawler, Joseph A. 3,171,473.
- Bluestein, Ben A., to General Electric Co. Process for making organopolysiloxanes. 3,177,178, 4-6-65, Cl. 260-46.5.
- Bluestein, Ben A., to General Electric Co. Equilibration of organopolysiloxanes using phosphorus containing catalyst. 3,208,973, 9-28-65, Cl. 260-46.5.
- Bluestein, Bernard R.: See—
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- Bluestone, Henry: See—
Berkey, Reynolds A., and Bluestone. 3,210,415.
- Slezak, Frank B., and Bluestone. 3,187,004.
- Blue White Industries, Ltd.: See—
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- Blum, Arley C. and E. F. Dispensing reel. 3,201,060, 8-17-65, Cl. 242-110.3.
- Blum, Elmo F.: See—
Blum, Arley C. and E. F. 3,201,060.
- Blum, Harold F.: See—
Lawrence, Joseph W., and Blum. 3,179,644.
- Blum, Anselm: See—
Straub, Hermann, and Blum. 3,168,175.
- Blum, Asher S., to Zenith Radio Corp. Electron gun structure for producing an electron beam free of radial velocity components wherein the length of the first non-magnetic cylinder is approximately equal to an integral number of wave lengths of the scallop frequency. 3,215,890, 11-2-65, Cl. 315-31.
- Blum, Josef, and C. J. Filz, to Ivan Sorvall, Inc. Cell fractionator apparatus and method. 3,165,266, 1-12-65, Cl. 241-1.
- Blum, Julius, & Co., Inc.: See—
Seery, Robert F. 3,197,931.
- Blum, Louis, to Blumcraft of Pittsburgh. Illuminated wall bracket and handrail. 3,183,343, 5-11-65, Cl. 240-2.
- Blum, Paul: See—
Aupetit, Armand, Blum, and Jouin. 3,175,087.
- Blum, Pierre, and C. Moreau, to Commissariat a l'Energie Atomique. Process for the preparation of uranium monocarbide powder. 3,223,475, 12-14-65, Cl. 23-14.5.
- Blum, Robert D., to Borg-Warner Corp. Multi-room air conditioning systems. 3,171,471, 3-2-65, Cl. 165-2.
- Blum, William A., to Pennsalt Chemicals Corp. Chlorate accelerated zinc phosphating baths with added arsenate. 3,203,835, 8-31-65, Cl. 148-6.15.
- Blumberg, Arthur. Jewelry box. 3,206,014, 9-14-65, Cl. 206-45.19.
- Blumberg, Ben, Jr., to United States of America, Atomic Energy Commission. Steam generator. 3,170,846, 2-23-65, Cl. 176-59.
- Blumberg, Gladys. Mailing container. 3,194,477, 7-13-65, Cl. 229-40.
- Blumberg, Marvin E., and G. J. Gould, to Pennsalt Chemicals Corp. Process for rendering animal fat. 3,222,384, 12-7-65, Cl. 260-412.6.
- Blumbergs, John H., to Allied Chemical Corp. Dehydrochlorination of 1,2,3-trichlorobutane. 3,188,357, 6-8-65, Cl. 260-653.
- Blumcraft of Pittsburgh: See—
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- Blume, Alan E., to General Electric Co. Array pattern modification. 3,182,325, 5-4-65, Cl. 343-100.
- Blume, Alan E., to General Electric Co. Variably spaced arrays of wave radiators and receivers. 3,182,330, 5-4-65, Cl. 343-844.
- Blume, Alan F.: See—
Blume, Frank J. and A. F. 3,182,751.
- Blume, Frank J. Conveyor structure. 3,198,319, 8-3-65, Cl. 198-204.
- Blume, Frank J. and A. F. Vertical conveyor and guided carrier connected by a tension arm. 3,182,751, 5-11-65, Cl. 187-17.
- Blume, Friedrich: See—
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- Blume, Walter S., to Leyman Corp. Permanent magnets having a plurality of openings therein. 3,211,966, 10-12-65, Cl. 317-158.
- Blumel, Harald: See—
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- Blumenkopf, Norman, and O. F. Hecht, to General Aniline & Film Corp. Process of making N-vinyl morpholine. 3,179,661, 4-20-65, Cl. 260-247.
- Blumenschein, Gordon. Garden tool holder. 3,170,612, 2-23-65, Cl. 224-45.
- Blumenstein, Walter K., and A. David, to Otto Konigsrow Mfg. Ampoule applicator. 3,217,712, 11-16-65, Cl. 128-216.
- Blumenthal Bros., Inc.: See—
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- Blumenthal, Jack H., to International Flavors & Fragrances Inc. Aliphatic and alicyclic nitriles. 3,168,550, 2-2-65, Cl. 260-464.
- Blumenthal, Jack H., to International Flavors & Fragrances Inc. Myrcene sulfone hydrate and process for making same. 3,176,022, 3-30-65, Cl. 260-332.1.
- Blumenthal, John: See—
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- Blumenthal, John, to Clevite Corp. Magnetic transducer head. 3,178,519, 4-13-65, Cl. 178-100.2.
- Blumer, Hans. Machine for cutting and/or creasing sheets of thin materials such as paper and cardboard and metal or plastic foils. 3,203,288, 8-31-65, Cl. 83-92.
- Blumrich, Josef F., to United States of America, National Aeronautics and Space Administration. Landing pad assembly for aerospace vehicles. 3,175,789, 3-30-65, Cl. 244-100.
- Blumrich, Josef F., to United States of America, National Aeronautics and Space Administration. Pivotal shock absorbing pad assembly. 3,208,707, 9-28-65, Cl. 248-188.9.

Blumstein, Abraham. Cuff links. 3,224,058, 12-21-65, Cl. 24-87.

Blunck, Otto, H. and H. Stüben, to H. Mahak Aktiengesellschaft. Control device and components thereof for electro-motive drive for winding bobbins for yarn and the like. 3,180,584, 4-27-65, Cl. 24-43.

Blunden, Donald, J., W. E. Widener, and R. J. Haggarty, to Whitehead & Kales Co. Vehicle tie-down structure. 3,181,886, 5-4-65, Cl. 280-179.

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Blyth, John W., C. A. Godcharles, J. H. Jacobson, and W. J. Rozmus, to Hamilton Research Associates, Inc. Mechanical teaching machine. 3,200,513, 8-17-65, Cl. 35-9.

Blythe, John H.: See—
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Blythe, John H., to The Marconi Co., Ltd. Radar systems. 3,188,635, 6-8-65, Cl. 343-14.

Blythe, Joseph A., Jr. Sailing indicator for starting line, course and wind direction. 3,190,257, 6-22-65, Cl. 116-133.

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 Bollert, Volker, G. T. Fritz, H. Schnell, and H. G. Lotter, to Farbenfabriken Bayer Aktiengesellschaft. Method of foaming organo-plastic synthetic resins and products produced therefrom. 3,222,302, 12-7-65, Cl. 260-2.5.
 Bollthorn, George E., and E. A. Macha, to Westinghouse Electric Corp. Dynamoelectric machine. 3,209,183, 9-28-65, Cl. 310-87.
 Bolliger, Edwin, to J. Bobst and Son S.A. Presses comprising a movable platen driven by toggle levers. 3,182,588, 5-11-65, Cl. 100-286.
 Bolliger, Frederic E.: See—
 Grosselinger, Robert A., Bolliger, and Nussbaumer. 3,174,529.
 Bolling Stewart & Co., Inc.: See—
 Matsuoaka, James T. 3,196,941.
 Bollinger, Albert E., J. M. Delaney, and J. F. McHugh, to Interchemical Corp. Heat-sensitive copying sheets. 3,180,752, 4-27-65, Cl. 117-36.7.
 Bollinger, Stephen A.: See—
 Von Brimer, Joe W. 3,194,032.
 Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Cable connection. 3,187,081, 6-1-65, Cl. 174-21.

- Bolmgren, Lester N., to Honeywell Inc. Automatic calibration device for photometer apparatus. 3,211,913, 10-12-65, Cl. 250-43.5.
 Bolomey, Rene A., and C. E. Marks, to The Mearl Corp. Method of casting polymerizable resins containing lamellar particles. 3,222,438, 12-7-65, Cl. 264-108.
 Bolsey Corp. of America: See—
 Bolsey, Jacques. 3,193,839.
 Bolsey, Jacques. 3,199,117.
 Bolsey, Emil.: See—
 Bolsey, Jacques. 3,176,578.
 Bolsey, Emil J.: See—
 Bolsey, Jacques, and E. J. 3,211,071.
 Bolsey, Emil J., and G. A. Buon, to J. A. Maurer, Inc. Photographic data recorder. 3,179,000, 4-20-65, Cl. 88-24.
 Bolsey, Jacques, deceased; E. and M. Bolsey, and N. W. Schur, executors. Optical projection device. 3,176,578, 4-6-65, Cl. 88-26.
 Bolsey, Jacques, to Bolsey Corp. of America. Motion picture camera. 3,193,839, 7-6-65, Cl. 352-72.
 Bolsey, Jacques, to Bolsey Corp. of America. Counter and control structures for motion picture cameras. 3,199,117, 8-3-65, Cl. 352-172.
 Bolsey, Jacques, deceased (by N. W. Schur, executor), and E. J. Bolsey. Photoelectric devices. 3,211,071, 10-12-65, Cl. 95-64.
 Bolsey, Maria.: See—
 Bolsey, Jacques. 3,176,578.
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 Merritt, Howard V., and Bolster. 3,202,253.
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 Bolt, Richard R., to American Can Co. Method and apparatus for forming metal articles. 3,181,422, 6-29-65, Cl. 72-344.
 Bolt, Richard R., and D. E. Wobbe, to American Can Co. Method and apparatus for forming metal containers. 3,203,218, 8-31-65, Cl. 72-349.
 Bolton, Benjamin A., to Standard Oil Co. Polyester using benzene tribasic acid. 3,223,666, 12-14-65, Cl. 260-29.2.
 Bolton, Clay P., and M. E. Holy, said Bolton assor. to Carnation Co., and said Holy assor. to Rockford Paper Mills, Inc. Pour spout carton construction. 3,203,616, 8-31-65, Cl. 229-17.
 Bolton, Douglas H. H.: See—
 Potts, Michael C., and Bolton. 3,198,087.
 Potts, Michael C., and Bolton. 3,217,603.
 Bolton, Douglas H. H., and M. C. Potts, to Dowty Mining Equipment Ltd. Roof support assemblies. 3,196,756, 7-27-65, Cl. 92-5.
 Bolton, Douglas H. H., and M. C. Potts, to Dowty Mining Equipment Ltd. Roof support assembly. 3,202,058, 8-24-65, Cl. 91-189.
 Bolton, Douglas H. H., F. Pawling, and M. C. Potts, to Dowty Mining Equipment Ltd. Mining apparatus. 3,217,605, 11-16-65, Cl. 91-170.
 Bolton, Douglas H. H., F. Pawling, M. C. Potts, D. H. Cannon, and R. H. B. Winder, to Dowty Mining Equipment Ltd. Advanceable roof support assemblies. 3,217,606, 11-16-65, Cl. 91-170.
 Bolton, Douglas H. H., F. Pawling, and M. C. Potts, to Dowty Mining Equipment Ltd. Mining apparatus. 3,217,608, 11-16-65, Cl. 91-412.
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 Weller, Barton L., and Bolton. 3,221,387.
 Bolton, Eric, M. K. Andlewski, and J. Hewitt, to The English Electric Co., Ltd. Resistors. 3,172,073, 3-2-65, Cl. 338-280.
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 Danforth, Donald W. 3,201,066.
 Bolton, Michael J., G. A. Joyner, Jr., and R. H. Lux, to General Electric Co. Methods of making insulation, and products formed thereby. 3,177,107, 4-6-65, Cl. 156-319.
 Bolton, Norman A., to General Signal Corp. Vehicle registration system. 3,176,267, 3-30-65, Cl. 340-51.
 Bolton, Norman A., to General Signal Corp. Liquid level indication system. 3,184,969, 5-25-65, Cl. 73-290.
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 Bolton, Theodore S., to SCM Corp. Impression control mechanism. 3,179,226, 4-20-65, Cl. 197-17.
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 Breining, Elmer R., and Bolton. 3,175,259.
 Boltze, Karl-Heinz, D. Lorenz, and M. Ruberg-Schweer, to Troponwerke Dinklage & Co. Novel pharmacologically active quinoxalinone compound. 3,194,806, 7-13-65, Cl. 260-240.
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 Bolzan, James J., Jr., to Robbins & Myers, Inc. Cushioned commutator leads. 3,209,186, 9-28-65, Cl. 310-234.
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 Bomar, Weldon B., Jr. Rotary display racks. 3,195,736, 7-20-65, Cl. 211-163.
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 Bachelet, Albert E., and Bomba. 3,178,643.
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- Bomba, William S. Hydraulic cutting blades for stone sawing machines. 3,176,675, 4-6-65, Cl. 125-15.
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 Gulya, John A., Fogleman, and Bomberger. 3,216,823.
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 Bommer, Heinrich, deceased (by H. Bommer, legal representative of minor heirs, widow and heir, and H. D. Bommer, heir), and H. Brunner, to Deutsche Gold-und Silber-Scheidanstalt vormals Roessler. Flame synthesis of finely divided aluminum borates and phosphates. 3,164,442, 1-5-65, Cl. 23-39.
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 Bond, David W., to Girling Ltd. Spreading type disc brakes. 3,203,507, 8-31-65, Cl. 188-72.
 Bond, Donald C., to The Pure Oil Co. Secondary recovery of oil. 3,186,482, 6-1-65, Cl. 166-9.
 Bond, Frank, W. S. Kegg, and R. F. Moranz, to Lakewood Mfg. Co. Automatic door operator. 3,195,879, 7-20-65, Cl. 268-33.
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 Bond, Herbert M., to Minnesota Mining and Mfg. Co. Ultra-violet light stable vinyl chloride resin. 3,223,661, 12-14-65, Cl. 260-23.
 Bond, Herbert M., and J. Tomita, to Minnesota Mining and Mfg. Co. Stabilized polyethylene. 3,200,056, 8-10-65, Cl. 204-154.
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 Bond, Robert M. 3,189,123.
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 Burke, Earl J., Bond, and Mausert. 3,204,164.
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 Bondi, Henry S., to FMC Corp. Glazed ceramic articles. 3,211,575, 10-12-65, Cl. 117-125.
 Bondi, Justine R. Fishing device. 3,190,029, 6-22-65, Cl. 43-42.74.
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 Bone, Herbert L., and D. P. Fitzsimmons, to Westinghouse Air Brake Co. Car retarder speed control apparatus. 3,172,628, 3-9-65, Cl. 246-182.
 Bone, Kendall F., to The Cincinnati Milling Machine Co. Bearing preload mechanism for machine tool. 3,222,991, 12-14-65, Cl. 90-11.
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 Murb, Jawad H., and Bonecutter. 3,216,797.
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 Bones, Glenn W., and W. R. Ralsanen, to United States of America, Air Force. Variable frequency multi-phase signal generator with phase difference constant over frequency band. 3,202,932, 8-24-65, Cl. 331-45.

- Bonetti, Giovanni A., C. B. De Savigny, C. Michalski, and R. Rosenthal, to The Atlantic Refining Co. Method for preparing nitronitrites and dinitroparaffins from alpha-olefins. 3,192,248, 6-29-65, Cl. 260-467.
- Bonetti, Giovanni A., and R. Rosenthal, to Atlantic Refining Co. Method for conversion of 1,2-dinitroparaffins to 1-nitroolefins. 3,192,271, 6-29-65, Cl. 260-644.
- Bonetti, Giovanni A., C. B. De Savigny, and C. Michalski, to The Atlantic Refining Co. Preparation of primary amines from 1-nitro-olefins. 3,226,442, 12-28-65, Cl. 260-583.
- Bonetti, Giulio, to Istag A.G. Liquid level indicator. 3,221,552, 12-7-65, Cl. 73-330.
- Bonewits, Robert P. Screw retaining device for screwdriver. 3,182,697, 5-11-65, Cl. 145-50.
- Bonewitz Chemicals, Inc.: See—
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- Bonfield, John H., R. C. Hecker, O. E. Snider, and B. G. Apostle, to Allied Chemical Corp. Regeneration of e-caprolactam from polyamides. 3,182,055, 5-4-65, Cl. 260-239.3.
- Bonfiglioli, Giampaolo: See—
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- Bongard, Mathieu: See—
- Biekart, Hendrik J. B., Bongard, and Kaasenbrood. 3,171,770.
- Bongenaar, Willem, A. J. W. M. van Oberbeek, and T. J. Tulp, to North American Phillips Co., Inc. Circuit for linearly changing the magnetization of a core. 3,201,594, 8-17-65, Cl. 307-88.
- Bongiovanni, John C. Continuous casting and rolling of metals. 3,196,516, 7-27-65, Cl. 29-33.
- Bonhomme, Francois R. to Curtiss-Wright Corp. Miniature contact elements of tubular profile for electric couplings of the plug and socket type. 3,181,112, 4-27-65, Cl. 339-252.
- Bonic, Isaac. Device for clearing snow from the path of an automobile. 3,203,118, 8-31-65, Cl. 37-53.
- Bonickel, Krystyna W. and M. A. Building structure. 3,212,220, 10-19-65, Cl. 52-80.
- Bonickel, Maria A.: See—
- Bonickel, Krystyna W. and M. A. 3,212,220.
- Boniface, George B.: See—
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- Bonin, George E., to Corning Glass Works. Edge grinding. 3,186,134, 6-1-65, Cl. 51-283.
- Bonin, Lawrence G., and W. G. Smith, to Symons Mfg. Co. Concrete wall form panel units with attached connecting means therefor. 3,169,294, 2-16-65, Cl. 25-131.
- Bonin, Lawrence G., and W. G. Smith, to Symons Mfg. Co. Concrete wall form panel units and connecting means therefor. 3,204,918, 9-7-65, Cl. 249-181.
- Bonini, John H., to Union Bag-Camp Paper Corp. Display food package. 3,183,100, 5-11-65, Cl. 99-171.
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- Bönlisch, Siegfried: See—
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- Rafowitz, Samuel, and Bonk. 3,188,654.
- Bonkowski, Teofil L.: See—
- Curry, Byron V. Jr., and Bonkowski. 3,206,019.
- Bonn, Theodore H.: See—
- Fraunfelder, James A., Cubert, and Bonn. 3,209,268.
- Bonn, Theodore H., and J. P. Eckert, Jr., to Sperry Rand Corp. Signal translating device. 3,188,481, 6-8-65, Cl. 307-88.
- Bonnar, Henry O. Tabulating form and method. 3,193,665, 7-6-65, Cl. 235-61.12.
- Bonnar-Vawter Inc.: See—
- Hunt, Guilbert M. 3,196,448.
- Bonnard, Armand A. Cylindrical squeeze-type directional valve. 3,185,178, 5-25-65, Cl. 137-625.29.
- Bonnard, Lucien, to Rhodaceta, Societe. Process for the treatment of articles consisting of synthetic polymers and products obtained thereby. 3,211,515, 10-12-65, Cl. 8-115.5.
- Bonnard, Roger, and G. Orion, to Etablissements Merlin & Gerin. Circuit breaker with slidably removable arc extinction chamber. 3,189,714, 6-15-65, Cl. 200-144.
- Bonnaure, Pierre: See—
- Aranovitch, Eric, Bonnaure, and Mollica. 3,188,276.
- Bonnefols, Jean, and J. Caillard, to Generale D'Electricite, Compagnie. Circuit-breaking device for alternating current arranged for the compensation of electro-dynamic forces. 3,205,333, 9-7-65, Cl. 200-170.
- Bonnell, Alfred, Jr.: See—
- Nichols, John B., and Bonnell. 3,195,649.
- Bonnell, William L., Co., Inc. The: See—
- Collins, Vardie W., and Brunn. 3,218,658.
- Bonnema, Robert W.: See—
- Larsen, Raymond B., De Karske, Edwards, Higgins, and Bonnema. 3,198,331.
- Bonner, Eugene V., Jr., to Sole Mfg. Co., Inc. Ski and pole carrier. 5,225,987, 12-28-65, Cl. 224-45.
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- Bonner, Raymond E., to International Business Machines Corp. Adaptive recognition system for recognizing similar patterns. 3,209,328, 9-28-65, Cl. 340-146.3.
- Bonner, Raymond E., W. G. Spruth, and W. P. Margopoulos, to International Business Machines Corp. Passive analog holding circuit. 3,171,986, 3-2-65, Cl. 307-109.
- Bonnet, Georges, and A. Salvi, to Commissariat a l'Energie Atomique. Magnetic resonance device for measuring magnetic field intensity. 3,166,706, 1-19-65, Cl. 324-5.
- Bonnet, Georges, and A. Salvi, to Commissariat a l'Energie Atomique. Nuclear magnetometers of the type making use of a high frequency pumping on an electronic transition. 3,166,707, 1-19-65, Cl. 324-5.
- Bonnet, Yannik: See—
- Lafont, Pierre, and Bonnet. 3,165,538.
- Bonnett, Daniel W., to Koppers Co., Inc. Double divided gun flue horizontal coking retort oven. 3,170,850, 2-23-65, Cl. 202-141.
- Bonnett, Daniel W., to Koppers Co., Inc. High and low burner gun flue coke oven with waste gas recirculation and decarbonizing air. 3,192,134, 6-29-65, Cl. 202-241.
- Bonnette, Roland E., to United Shoe Machinery Corp. Conveyor systems. 3,176,627, 4-6-65, Cl. 104-172.
- Bonnierforetagen, AB: See—
- Carlen, Bo R. 3,174,686.
- Carlen, Bo R. Jr. 3,224,558.
- Bonnicksen, Cyril W., to Grebon Holding Ltd. Processes for making powdered or granular substances from seaweed by alkaline digestion. 3,197,459, 7-27-65, Cl. 260-209.6.
- Bono, Luigi, to Necchi Societa per Azioni. Apparatus comprising a magnetic pattern and follower for shaped sewing. 3,164,112, 1-5-65, Cl. 112-2.
- Bono, Luigi, to Necchi Societa per Azioni. Device for actuating the knife of a sewing machine. 3,167,042, 1-26-65, Cl. 112-123.
- Bono, Luigi, to Necchi Societa per Azioni. Fabric holding device for automatic contoured sewing. 3,174,447, 3-23-65, Cl. 112-2.
- Bono, Luigi, to Necchi Societa per Azioni. Differential feed device for a sewing machine. 3,174,449, 3-23-65, Cl. 112-209.
- Bono, Luigi, to Necchi Societa per Azioni. Device for stretching a plurality of fabric pieces on a fabric holding frame. 3,182,412, 5-11-65, Cl. 38-102.1.
- Bono, Luigi, to Necchi Societa per Azioni. Cam assembly. 3,214,996, 11-2-65, Cl. 74-568.
- Bono, Luigi, to Necchi Societa per Azioni. Zigzag sewing machine with a manually operable device for the making of buttonholes. 3,215,104, 11-2-65, Cl. 112-158.
- Bono, Luigi, to Necchi Societa per Azioni. Device for cutting and holding the threads of a sewing machine. 3,215,106, 11-2-65, Cl. 112-252.
- Bono, Luigi, to Necchi Societa per Azioni. Automatic sewing machine. 3,216,380, 11-9-65, Cl. 112-2.
- Bono, Luigi, to Necchi Societa per Azioni. Buttonhole sewing machine. 3,216,381, 11-9-65, Cl. 112-67.
- Bono, Luigi, to Necchi Societa per Azioni. Device for sewing trimmings. 3,216,383, 11-9-65, Cl. 112-114.
- Bono, Luigi, to Necchi Societa per Azioni. Sewing machine with upper needle point and lower wheel feed. 3,216,386, 11-9-65, Cl. 112-206.
- Bono, Luigi, to Necchi Societa per Azioni. Device comprising a dynamo and an electromagnet clutch for regulating the speed of a driver shaft. 3,218,493, 11-16-65, Cl. 310-95.
- Bono, Luigi, to Necchi Societa per Azioni. Adjusting device for regulating a sewing machine mechanism. 3,221,573, 12-7-65, Cl. 74-522.
- Bonomo, Melvin E.: See—
- Melners, Elmo R., and Bonomo. 3,196,599.
- Bonomo, Steven A., to International Business Machines Corp. Data processing apparatus including an alpha-numeric shift register. 3,209,330, 9-28-65, Cl. 340-172.5.
- Bonsel, Wouter G.: See—
- Bogaardt, Maarten, Bonsel, Muysken, Brödwijn, and Elss. 3,202,584.
- Bonta, Ivan L., to Organon Inc. Preparations acting on the central nervous system and the manufacture thereof. 3,167,476, 1-26-65, Cl. 167-65.
- Bonvallet, Gordon G., and R. Dulude, to Corning Glass Works. Combination space lighting, heating and ventilating fixture. 3,215,828, 11-2-65, Cl. 240-9.
- Bonvicini, Alberto: See—
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- Bonvicini, Alberto, and C. Caldo, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process of rendering polyolefins more dye receptive by mixing with organic compounds having phenolic hydroxy groups. 3,182,105, 5-4-65, Cl. 264-78.
- Bonvicino, Guido E., R. A. Hardy, Jr., and L. H. Yagodzinski, to American Cyanamid Co. N-(aminoalkyl)-2-alkoxyphenoxazines and a method of making N-(aminoalkyl)-phenoxazine derivatives. 3,215,692, 11-2-65, Cl. 260-244.
- Bonwit, Willard R., and J. J. Hartlove, to The Lord Baltimore Press Inc. Carton blanking die and method of making. 3,196,716, 7-27-65, Cl. 76-107.
- Bonzagni, Francis A., and O. P. Cohen, to Monsanto Co. Laminated milk carton. 3,181,763, 5-4-65, Cl. 229-3.5.
- Bood, Louis, to Mowid Anstalt. Submersible pump. 3,195,468, 7-20-65, Cl. 103-87.
- Booe, James M.: See—
- Haberecht, Rolf R., Booe, and Loftus. 3,181,229.
- Booher, Harley H.: See—
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- Booher, Harley H., to The Fluor Corp., Ltd. Structural joint connector. 3,178,780, 4-20-65, Cl. 20-92.

- Booher, Jack C., and W. J. Larson, to American Machine & Foundry Co. Grass catcher. 3,176,453, 4-6-65, Cl. 56-202.
- Booher, Robert K., to North American Aviation, Inc. Division apparatus. 3,222,505, 12-7-65, Cl. 235-167.
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- Carter, Leewood C., and Mullen. 3,195,924.
- Book, Herbert W., to Westinghouse Electric Corp. Electrical apparatus having foil wound windings and metallic duct formers. 3,195,084, 7-13-65, Cl. 33-80.
- Book, Herbert W., to Westinghouse Electric Corp. Regulating transformer system. 3,209,240, 9-28-65, Cl. 323-60.
- Book, Herbert W., to Westinghouse Electric Corp. Electrical inductive apparatus having interleaved windings. 3,210,704, 10-5-65, Cl. 336-183.
- Book, Herbert W., to Westinghouse Electric Corp. Electrical inductive apparatus having interleaved windings for providing a predetermined capacitive effect. 3,210,706, 10-5-65, Cl. 336-183.
- Book, Herbert W., and A. M. Lockie, to Westinghouse Electric Corp. Regulating and current limiting transformer system. 3,209,241, 9-28-65, Cl. 323-60.
- Booker, Bernard A. Portable crane. 3,167,200, 1-26-65, Cl. 214-523.
- Booker, Lee H.: See—
- Pearson, Charles E. 3,190,375.
- Booker, Robert J.: See—
- Mullett, Howard G., and Booker. 3,194,427.
- Booker, Robert J., and G. E. Wagner, to Bradley Wash-fountain Co. Drain vent and supply fitting. 3,187,349, 6-9-65, Cl. 4-145.
- Bookman, Abe C. Amusement device. 3,168,315, 2-2-65, Cl. 273-145.
- Book-of-the-Month Club, Inc.: See—
- Ullman, Allan. 3,203,558.
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- Anderson, Arnold E., Bookout, and Kaptur. 3,184,913.
- Boon, Roger W., and L. D. Roberts, to United States of America, Atomic Energy Commission. Superconducting solenoid. 3,176,195, 3-30-65, Cl. 317-123.
- Boongard, C. J. Closure and valve construction. 3,184,288, 1-5-65, Cl. 220-44.
- Boon, William. Pneumatic conveying system for bulky materials. 3,208,800, 9-28-65, Cl. 302-17.
- Boone, Arthur M., to Pullman Inc. Bridge plate holder. 3,216,372, 11-9-65, Cl. 105-458.
- Boone, Arthur M., to Pullman Inc. Bridge plate counter-balance device. 3,216,373, 11-9-65, Cl. 105-458.
- Boone, George R.: See—
- Scranton, Richard S., and Boone. 3,220,255.
- Boone, James L., and R. J. Brotherton, to United States Borax & Chemical Corp. Polymeric organoboron compounds and method of preparing same. 3,197,421, 7-27-65, Cl. 260-2.
- Boone, Jay D., to United States of America, Navy. Variable porosity fabric for aeronautical decelerator. 3,222,018, 12-7-65, Cl. 244-145.
- Boone, Joseph, to Marius Berghracht. Combined coating machine, especially for the application of various layers of plastic substance on a paper support or the like. 3,174,456, 3-23-65, Cl. 118-63.
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- Boudrie, Warren E., to United States of America, Atomic Energy Commission. Insulated tube coupling. 3,208,773, 9-28-65, Cl. 285-18.
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- Boughton, Roger C., to Pittsburgh Pipe and Coupling Co. Coupling nut assembly. 3,194,592, 7-13-65, Cl. 285-342.
- Boullenne-Walrand, Marie A. J., G. Wettruff, and J. E. Khadji, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Fungicide and bactericide comprising the reaction product of 2,4,5-trichlorophenol and butyl phosphate. 3,203,854, 8-31-65, Cl. 167-31.
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- Boulet, Georges, to Societe a Responsabilite Ltd.: Recherches Etudes Production R.E.P. Barrel pump. 3,180,275, 4-27-65, Cl. 103-162.
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- Boutwell, Ernest D. Antifriction split-nut device. 3,186,250, 6-1-65, Cl. 74-459.
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- Bouwers, Albert, to Optische Industrie de Oude Delft, N.V. Anamorphosing optical system. 3,195,404, 7-20-65, Cl. 88-57.
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- Bowen, Rafael L., to United States of America, Commerce. Silica-resin direct filling material and method of preparation. 3,194,784, 7-13-65, Cl. 260-41.
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- Bowers, Albert, to Syntex Corp. 19-halo pregnane derivatives. 3,186,988, 6-1-65, Cl. 260-239.55.
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- Bowers, Albert, to Syntex Corp. 19-substituted pregnenes. 3,206,458, 9-14-65, Cl. 260-239.55.
- Bowers, Albert, to Syntex Corp. 6-hydroxy and 6-keto-4(10)-19-norandrostene and pregnene derivatives. 3,206,460, 9-14-65, Cl. 260-239.55.

- Bowers, Albert, to Syntex Corp. 19-alkyl androstanes. 3,207,767, 9-21-65, Cl. 260—397.4.
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- Bowers, Albert, to Syntex Corp. 19-lower alkyl- Δ^4 -10 α -pregnene-3,20-dione and derivatives thereof. 3,221,012, 11-30-65, Cl. 260—239.55.
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- Bowers, Albert, J. Edwards, and J. C. Orr, to Syntex Corp. 2-methyl derivatives of Δ^4 -androstene-17 β -ol. 3,188,326, 6-8-65, Cl. 260—397.5.
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- Bowers, Albert, and O. Halpern, to Syntex Corp. 6-keto-3-desoxy- Δ^4 -10 α -pregnatrienes and processes for their preparation. 3,201,428, 8-17-65, Cl. 260—397.
- Bowers, Albert, J. Edwards, and P. Crabbe, to Syntex Corp. Ring A aromatic 9 β -estratrienes and 19-norpregnatrienes. 3,207,753, 9-21-65, Cl. 260—239.55.
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- Bradner, John A., to The Lees-Bradner Co. Selective gearing arrangement for hobbing gears and milling threads. 3,190,180, 6-2-65, Cl. 90-4.
- Bradov, Nick W. Child's stroller. 3,173,396, 3-16-65, Cl. 115-1.
- Bradaby, Thomas R., to H. W. Sheehan. Permanent magnet hanger. 3,174,714, 3-23-65, Cl. 248-309.
- Bradsell, Robert H.: See—
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- Bradshaw, Arthur, and G. J. Mansfield, to United States Shoe Machine Corp. Temperature gradient mulling. 3,193,860, 7-13-65, Cl. 12-59.7.
- Bradshaw, Arthur, and B. M. Woolatt, to United Shoe Machinery Corp. Heat setting cabinets. 3,197,019, 7-27-65, Cl. 198-156.
- Bradshaw, David L. Device for favorably positioning an animal for castration. 3,164,131, 1-5-65, Cl. 119-103.
- Bradshaw, Harold A., to Ingersoll-Rand Co. High vacuum steam ejector. 3,187,682, 6-8-65, Cl. 103-278.
- Bradshaw, Harold G., to Cochran Equipment Co. Wide wheel-base truck. 3,170,704, 2-23-65, Cl. 280-34.
- Bradshaw, John A. Filament dispenser package. 3,218,003, 11-16-65, Cl. 242-129.8.
- Bradshaw, Robert: See—
Kesslin, George, Flisak, and Bradshaw. 3,192,245.
- Bradshaw, Robert S., to Burroughs Corp. Electromagnetic actuating means for wire printers. 3,217,640, 11-16-65, Cl. 101-93.
- Bradt, Albert J., J. T. Curry, and R. A. Estock, to Martin-Marietta Corp. Electronic modules. 3,201,655, 8-17-65, Cl. 317-101.
- Bradt, Lynn, and J. G. Dorrance, to S. I. Handling Systems Inc. Tow truck system. Re. 25,723, 2-2-65, Cl. 104-88.
- Bradway, Malcolm S. Article scouring conveyor. 3,190,329, 6-22-65, Cl. 146-49.
- Brady, Edward L. Boat anchor. 3,180,304, 4-27-65, Cl. 114-207.
- Brady, Francis E., Jr., and P. L. Johnson; said Johnson assor. to said Brady. Method of and apparatus for forming tubular members. 3,186,203, 6-1-65, Cl. 72-56.
- Brady, James C.: See—
Hall, John B., Jr., Brady, and Price. 3,208,272.
- Brady, John G.: See—
Szabo, Karoly, and Brady. 3,172,902.
- Brady, John T. Vehicle floor accessory support. 3,207,567, 9-21-65, Cl. 312-235.
- Brady, Joseph L., and R. A. Brudi, to Clark Equipment Co. Crates and carton handling attachment for industrial trucks. 3,200,978, 8-17-65, Cl. 214-651.
- Brady, Joseph R., and R. G. Cunningham, to Eastman Kodak Co. Electrostatic charging apparatus. 3,201,668, 8-17-65, Cl. 317-262.
- Brady, Joseph S., to Air Reduction Co., Inc. Flux composition. 3,175,932, 3-30-65, Cl. 148-23.
- Brady, Kenneth J., and N. Townsend; said Townsend assor. to said Brady. Sequential switch for an automatic vending machine or the like. 3,201,534, 8-17-65, Cl. 200-33.
- Brady, Robert T., M. J. McInerney, and J. L. Czyni, to Vapor Corp. Combustor for a steam generator. 3,226,038, 12-28-65, Cl. 239-405.
- Brady, Samuel G., to Ex-Cell-O Corp. Electrolytic grinder wheel. 3,194,751, 7-13-65, Cl. 204-212.
- Brady, W. H., Co.: See—
Rymer, William W. 3,211,604.
- Tobey, Frederic S. 3,192,093.
- Brady, William. Hot air torch. 3,219,797, 11-23-65, Cl. 219-370.
- Braendel, Felix W., and R. W. Bosse, to Groov-Plin Corp. Insert orienting equipment. 3,185,343, 5-25-65, Cl. 221-13.
- Braendel, Helmut G., to Wilkening Mfg. Co. Piston ring assembly. 3,202,430, 8-24-65, Cl. 277-79.
- Brandela, Hans, H. Petersen, and R. Fikentscher, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for producing a slow-acting nitrogenous fertilizer mixture containing crotylidenediurea. 3,190,741, 6-2-65, Cl. 71-28.
- Brandela, Hans, H. Petersen, and R. Fikentscher, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for producing a slow-acting and quick-acting nitrogenous fertilizer mixture containing crotylidenediurea. 3,190,742, 6-2-65, Cl. 71-28.
- Brandels, Harold, to Continental Glass Co. Tablet dispensing device. 3,199,668, 8-10-65, Cl. 206-42.
- Brandeland, Howard A.: See—
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- Brandenberg, Karl A., to Square D Co. Multi-circuit trip free overload switch. 3,179,757, 4-20-65, Cl. 200-124.
- Brandenberg, Karl A., to Modernair Corp. Double acting check valve. 3,196,890, 7-27-65, Cl. 137-102.
- Brandenberg, Karl A., and P. F. Carels, to Modernair Corp. Multi-way poppet valve. 3,175,581, 3-30-65, Cl. 137-596.15.
- Brandenberg, Karl A., and L. R. Bart, to Modernair Corp. Three-way solenoid valve. 3,185,177, 5-25-65, Cl. 137-625.27.
- Brandenberg, Karl A., and L. R. Bart, to Modernair Corp. Button bleeder valve. 3,197,172, 7-27-65, Cl. 251-23.
- Brandenbusch, Günter, to Koppers Co., Inc. Charging-hole-cover lifting-device for coke oven batteries. 3,182,838, 5-11-65, Cl. 214-658.
- Brander, Ian R., and J. B. Seed, to Imperial Chemical Industries Ltd. Method and apparatus for packaging plastic materials in elongated containers. 3,185,188, 5-25-65, Cl. 141-12.
- Brandes, Arthur, to Ekco Products Co. Storage rack. 3,220,557, 11-30-65, Cl. 211-40.
- Brandes, Eric A.: See—
Robiette, Alfred G. E., and Brandes. 3,220,860.
- Brandes, Jürgen, to Vereinigte Glanzstoff-Fabriken AG. Heat stabilization of polyamides. 3,174,944, 3-23-65, Cl. 260-37.
- Bratford, Donald A.: See—
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- Bratford, Donald A., to Beloit Corp. Separate loading of artillery propellant charges. 3,178,617, 4-6-65, Cl. 102-97.
- Bratford, Donald A., to Beloit Corp. Method of forming shells or molded parts. 3,216,889, 11-9-65, Cl. 162-218.
- Bragaw, Chester G., Jr., and E. Orowan, to E. I. du Pont de Nemours and Co. Safety-glass laminate. 3,178,334, 4-13-65, Cl. 161-165.
- Bragdon, James H.: See—
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- Bragg, Gilbert H.: See—
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- Bragg, Herbert E., R. D. Whitmore, A. E. Alden, and F. D. Leslie, to Twentieth Century Fox Film Corp. Method and apparatus for automatically and repetitively making copies of preselected portions of motion picture films. 3,199,404, 8-10-65, Cl. 88-24.
- Bragg, Horace A.: See—
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- Bragg, Kenneth R., to Parker-Hannifin Corp. Tube coupling. 3,201,149, 8-17-65, Cl. 285-39.
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- Braginetz, Paul A., to Philip Morris, Inc. Razor cases, shaving kits, and the like. 3,206,012, 9-14-65, Cl. 206-16.
- Bragman, Clifford I. Sliding closure structures. 3,184,806, 5-25-65, Cl. 20-52.
- Braham, James V. Feed lot conveyor system. 3,191,581, 6-29-65, Cl. 119-52.
- Braham Laboratories, Inc.: See—
Kane, Robert D. 3,188,671.
- Brahler, Berthold: See—
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- Brahler, Dean I. Internal combustion engine. 3,191,584, 6-29-65, Cl. 123-50.
- Brahm, Charles B., to United Aircraft Corp. Feedback integrating system. 3,192,371, 6-29-65, Cl. 235-183.
- Brahm, Charles B., to United States of America, Navy. Cable fade-in circuit. 3,207,052, 9-21-65, Cl. 317-33.
- Brahm, Charles B., and R. F. Gamble, to United Aircraft Corp. Power remaining indicator. 3,181,353, 5-4-65, Cl. 73-116.
- Brahm, Charles B., and J. E. Games, to United Aircraft Corp. Rate responsive compensation change circuit. 3,199,018, 8-3-65, Cl. 318-489.
- Braid, Milton: See—
Hauptschein, Murray, Braid, and Lawlor. 3,211,787.
- Hauptschein, Murray, and Braid. 3,219,712.
- Braid, Murray D., to TRW Inc. Method of making valve stem retainer locks. 3,222,770, 12-14-65, Cl. 29-413.
- Bralkewitch, Michael, and J. G. Warnock, to The English Electric Co. Ltd. Reversible pump turbines. 3,226,083, 12-28-65, Cl. 253-26.
- Brallowsky, Vladimir, to General Motors Corp. Process for orienting ferrites. 3,163,922, 1-5-65, Cl. 29-155.6.
- Brain, Alfred E., to Stamford Research Institute. Magnetic core logic and storage device. 3,198,415, 7-20-65, Cl. 340-174.
- Brain, James W. (deceased); by V. R. Brain, executrix. Apparatus for use in phase relationship determinations including a plurality of coils mounted on a flat structural member. 3,226,638, 12-28-65, Cl. 324-83.
- Brain, Virginia R.: See—
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- Brainard, Benson C. Spray container shield enclosure. 3,200,817, 8-17-65, Cl. 128-173.
- Brainard, Edward C. II, to Braincon Corp. Recording thermograph. 3,183,717, 5-18-65, Cl. 73-343.5.
- Brainard, Fred M. Turn-over jar cleaner. 3,208,613, 9-28-65, Cl. 214-308.
- Brainard, Wallace E., to Kearney & Trecker Corp. Apparatus for automatically setting up a program in a multiple spindle machine tool. 3,188,892, 6-15-65, Cl. 77-24.
- Brainard, Wallace E., J. A. Hansen, R. K. Sedgwick, C. B. Sipek, and H. J. Baechle, to Kearney & Trecker Corp. Machine tool with mechanical cutting tool changer. Re. 25,737, 3-2-65, Cl. 29-568.
- Brainard, Wallace E., and H. J. Baechle, to Kearney & Trecker Corp. Multiple spindle tool changer. 3,188,736, 6-15-65, Cl. 29-568.
- Braincon Corp.: See—
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- Brainerd, Alfred G., Jr., and G. E. Morgan. Air filter. 3,164,456, 1-5-65, Cl. 55-500.
- Brainerd, Baxter Corp.: See—
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- Brainerd, Clarence H.: See—
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- Braithwaite, David G., and W. Hanzel, to Nalco Chemical Co. Cell for carrying out electrochemical reactions. 3,189,534, 6-15-65, Cl. 204-274.
- Braithwaite, Richard, to Hudson Pulp & Paper Corp. Bag handle and bag. 3,208,492, 9-28-65, Cl. 150-12.
- Brake, William R.: See—
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- Brakebill, Elvin K., to Allied Chemical Corp. Acetamidocapronitrile, method of making and intermediates therefor. 3,210,400, 10-5-65, Cl. 260-465.4.
- Brakel, Johannes A., to North American Philips Co., Inc. Conversion of rectangular co-ordinates into polar co-ordinates. 3,180,977, 4-27-65, Cl. 235-189.
- Bram, Georges E., to Centre de Recherches de Pont-a-Mousson. Reinforcement for sealing element and sealing element incorporating said reinforcement. 3,183,010, 5-11-65, Cl. 277-235.
- Bram, Georges E., to Centre de Recherches de Pont-a-Mousson. Device for the continuous winding of wire. 3,195,338, 7-20-65, Cl. 72-138.
- Brame, Gordon R., and G. R. Chafee, Jr., to General Electric Co. Clothes dryer with optional additional drying means. 3,197,886, 8-3-65, Cl. 34-90.
- Bramekamp, Karl-Jürgen, and A. Kulling, to Titangesellschaft m.b.H. Process and device for cooling a hot gas mixture containing TiO₂. 3,224,215, 12-21-65, Cl. 62-120.
- Bramer, Donald W., L. Brockman, H. C. Sibley, and J. A. Snell, to General Signal Corp. Journal temperature information recording system for trains. 3,177,350, 4-6-65, Cl. 246-169.
- Bramer, Donald W., and H. C. Sibley, to General Signal Corp. Plural modulation communication system. 3,178,515, 4-13-65, Cl. 179-15.
- Bramer, John C., Jr., to Datagraphics Inc. Color display panel with bistable multi-vibrator matrix lamp control. 3,175,209, 3-23-65, Cl. 340-334.
- Bramfitt, John E.: See—
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- Bramlett, Merlin F., to Bramlett Oil Field Service, Inc. Completion tool for oil wells. 3,211,228, 10-12-65, Cl. 166-128.
- Bramlett, Merlin F., to Bramlett Oil Field Service, Inc. Oil well completion tool. 3,211,229, 10-12-65, Cl. 166-128.
- Bramlett, Merlin F., to Bramlett Oil Field Service, Inc. Oil well completion tool with drop-off plug. 3,211,231, 10-12-65, Cl. 166-152.
- Bramlett Oil Field Service, Inc.: See—
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- Bramlett, Merlin F. 3,211,229.
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- Bramley, Arthur: See—
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- Bramley, Jenny. Optical system for the utilization of coherent light. 3,218,390, 11-16-65, Cl. 178-7.85.
- Bramley, Jenny and A. Rectifying majority carrier device. 3,204,159, 8-31-65, Cl. 317-235.
- Brammer, Craig W.: See—
Vertnik, Leonard R., and Brammer. 3,217,026.
- Brammerio, Allen A., to General Electric Co. Stator winding arrangement in a single phase induction type motor. 3,200,317, 8-10-65, Cl. 318-220.
- Bramming, Carl, to Aladdin Industries, Inc. Vacuum bottle having filler with closure mounting ring cemented thereto. 3,193,126, 7-6-65, Cl. 215-13.
- Bramsch, Franz R., and H. Riegger, to Klenzle Apparate G.m.b.H. Apparatus for indicating the operation of a motor. 3,213,459, 10-19-65, Cl. 346-18.
- Brant & Lubbe: See—
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- Brancaccio, Giovanni: See—
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- Brancato, Sebastian T.: See—
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- Brancato, Vincent and J. Folding gate. 3,177,926, 4-13-65, Cl. 160-183.
- Branch, Albert P.: See—
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- Branch, Harvey C., and H. C. Gersbacher, to United Aircraft Products, Inc. Welding apparatus. 3,219,789, 11-23-65, Cl. 219-60.
- Branch, Robert E.: See—
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- Branch, William C.: See—
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- Branch, William H., and G. A. White, to Carrier Corp. Fluid control means. 3,216,479, 11-9-65, Cl. 158-140.
- Branco, Flavio S. C., to Minnesota Mining and Mfg. Co. Dual phase D.C. motor speed control system. 3,207,970, 9-21-65, Cl. 318-314.
- Brand, Jay J., to Pittsburgh Plate Glass Co. Glass cutter having means to retain cutter in an inoperative position. 3,165,018, 1-12-65, Cl. 83-11.
- Brand, Jay J., to Pittsburgh Plate Glass Co. Glass drawing apparatus. 3,181,392, 5-4-65, Cl. 74-665.
- Brand, John R.: See—
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- Schwartz, Harold O., Bode, and Brand. 3,178,500.
- Brand, John R., to The Wurlitzer Co. Electronic musical instrument oscillator. 3,196,200, 7-20-65, Cl. 84-1.05.
- Brand, Robert D., and E. J. Sperber, to Radio Corp. of America. Tuning system for television receivers. 3,179,907, 4-20-65, Cl. 334-1.
- Brand, Robert D., to Radio Corp. of America. Television tuner switching system. 3,219,933, 11-23-65, Cl. 325-459.
- Brandao, Roy L., to The Bendix Corp. Rapid slew initiation circuit. 3,202,987, 8-24-65, Cl. 343-9.
- Brandhorst, Willem: See—
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- Brandl, Otto H. Apparatus for supplying conditioned air at a predetermined over-pressure to a room from a corridor. 3,199,432, 8-10-65, Cl. 98-33.
- Brandiff, John S.: See—
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- Brandl, Josef: See—
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- Brandl, Robert J., Jr., and E. A. Grant, Jr., to Minnesota Mining and Mfg. Co. Lithographic printing plate and method of producing an image thereon. 3,168,864, 2-9-65, Cl. 101-149.2.

- Brandmair, Franz, E. Kolbe, and W. Kunzer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for purifying aqueous hydrochloric acid. 3,192,128, 6-29-65, Cl. 202-46.
- Brandon, Chester, to General Precision, Inc. Wire stripping machine. 3,196,721, 7-27-65, Cl. 83-8.
- Brandon, Clarence W., 12 1/2% to O. B. Brandon, and 50% to N. A. Hardin, C. H. Newton, and H. H. Wright. Method for fluid pressure fracturing of formation and fluid recovery therefrom. 3,220,475, 11-30-65, Cl. 166-42.
- Brandon, Clarence W., 5% to H. B. Jacobson, 12 1/2% to O. Brandon, and 50% to N. A. Hardin, C. H. Newton, and H. H. Wright, jointly. Method for fluid pressure vibratory fracture of formations and fluid recovery therefrom. 3,220,476, 11-30-65, Cl. 166-42.
- Brandon Equipment Co., Inc.: See—
- Broiling, Keith W. 3,209,706.
- Brandon, James C., Jr., T. H. Frank, Jr., and R. H. Rablser, to Magnetics, Inc. Method for encasing magnetic cores. 3,199,177, 8-10-65, Cl. 29-155.56.
- Brandon, Orpha: See—
- Brandon, Clarence W. 3,220,476.
- Brandon, Orpha B.: See—
- Brandon, Clarence W. 3,220,475.
- Brandon, Richard N., and W. W. Solley, to Reynolds Metals Co. Carrying case for bottle cartons and the like. 3,184,095, 5-18-65, Cl. 22-21.
- Brandon, Richard N., to A. Jackson, Jr. Tape reel. 3,223,342, 12-14-65, Cl. 242-74.2.
- Brandon, Skeavington H. Record keeping apparatus. 3,221,751, 12-7-65, Cl. 129-34.
- Brandstetter, Edward. Toy automatic wing folding catapult plane. 3,222,817, 12-14-65, Cl. 46-80.
- Brandstetter, Rudolph W.: See—
- Hollenbeck, Clifford M., and Brandstetter. 3,168,449.
- Brandt, Ake J. Slack adjuster. 3,194,358, 7-13-65, Cl. 188-196.
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- Elliot, Charles L., Ott, Tuska, and Brandt. 3,214,686.
- Brandt Automatic Cashier Co.: See—
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- Buchholz, Arnold R., Johnson, and Krause. 3,214,096.
- Brandt, Carl R., R. A. Jankowicz, and R. B. Watrous, to Honeywell Inc. Recorder. 3,216,022, 11-2-65, Cl. 346-140.
- Brandt, Edward A., and C. N. Drevalas, to Western Electric Co., Inc. Device for positioning flat articles. 3,225,635, 12-28-65, Cl. 83-268.
- Brandt, Erwin L., to McGraw-Edison Co. Immersion heater mounting. 3,193,662, 7-6-65, Cl. 219-336.
- Brandt, Franklin R., A. J. DeGlas, and C. W. Mann, to Dynamics Corp. of America. Ceramic ruggedized low frequency crystal unit. 3,221,189, 11-30-65, Cl. 310-9.1.
- Brandt, Fritz O. Apparatus for testing the germination of seeds. 3,209,492, 10-5-65, Cl. 47-16.
- Brandt, Glendon R., to Minnesota Mining and Mfg. Co. Molding apparatus. 3,183,554, 5-18-65, Cl. 18-26.
- Brandt, Glendon R., to Minnesota Mining and Mfg. Co. Method of molding a film from a fluorine-containing resin. 3,184,525, 5-18-65, Cl. 264-127.
- Brandt, Götz: See—
- Roberts, Webster C., and Brandt. 3,174,748.
- Brandt, Gotlieb H., to Harris-Intertype Corp. Electrostatic sheet hold-down. 3,172,657, 3-9-65, Cl. 271-51.
- Brandt, Harry, to California Research Corp. Method of improving electrical signal transmission in wells. 3,170,137, 2-16-65, Cl. 340-18.
- Brandt, Harry, and E. R. Lind, to California Research Corp. Control method and system for downhole gas-air heater. 3,173,483, 3-16-65, Cl. 166-38.
- Brandt, Harry, B. R. Treadway, and P. H. Parker, Jr., to California Research Corp. Consolidation of incompetent earth formations. 3,176,767, 4-6-65, Cl. 166-33.
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- Brandt, Heinrich: See—
- Arnold, Carl, and Brandt. 3,185,599.
- Brandt, Helmut, to North American Philips Co., Inc. Dubbing circuits for magnetic recorders with means for reducing feedback. 3,223,790, 12-14-65, Cl. 179-100.2.
- Brandt, Herbert, to Dr. Brandt Apparatebau Rothemühle & Co. Automatic voltage control for electrical precipitators. 3,166,705, 1-19-65, Cl. 323-66.
- Brandt, Herbert, to Apparatebau Rothemühle Dr. Brandt & Co. Electrostatic precipitator. 3,174,263, 3-23-65, Cl. 55-112.
- Brandt, Herbert, to Dr. Brandt Apparatebau Rothemühle & Co. Regenerative heat exchangers. 3,181,601, 5-4-65, Cl. 165-4.
- Brandt, Herbert. Method and apparatus for controlling the temperature and humidity of a regenerative air-heater. 3,183,961, 5-18-65, Cl. 165-2.
- Brandt, Herbert, to Apparatebau Rothemühle, Dr. Brandt & Co. Regenerative fluid heater. 3,191,666, 6-29-65, Cl. 165-4.
- Brandt, Herbert. Heat exchangers. 3,203,472, 8-31-65, Cl. 165-10.
- Brandt, James W., to Lovell Mfg. Co. Wringer. 3,224,237, 12-21-65, Cl. 68-257.
- Brandt, Lawrence: See—
- Trojanowski, George, and Brandt. 3,216,060.
- Brandt, Mahlon W., to Dorr-Oliver Inc. Method and apparatus system for continuously washing and drying solid combustible material. 3,192,068, 6-29-65, Cl. 134-25.
- Brandt, Maurice W., and C. R. Stoelting, to Stoelting Bros. Co. Apparatus for making a frozen aerated soft-serve product. 3,180,106, 4-27-65, Cl. 62-177.
- Brandt, Millo O., to American Optical Co. Method and apparatus for forming a lens surface. 3,225,497, 12-28-65, Cl. 51-358.
- Brandt, Omega Louis, & Frere S.A.: See—
- Raval, Gaston. 3,222,860.
- Brandt, Preston L., and J. Z. Matt, to Veliscol Chemical Corp. Formaldehyde-aromatic hydrocarbon condensation product prepared with a hydrocarbon sulfonic acid. 3,178,393, 4-13-65, Cl. 280-67.
- Brandt, Richard W., Jr. Vibration generator. 3,220,268, 11-30-65, Cl. 74-87.
- Brandt, Richard W., Jr. Belt drive for shaking device. 3,221,567, 12-7-65, Cl. 74-87.
- Brandt, Roger, and C. H. Hartford, to American Can Co. Corona treating of shaped articles. 3,183,352, 5-11-65, Cl. 250-49.5.
- Brandt, Roy G.: See—
- Fabian, Zdenek, and Brandt. 3,180,525.
- Brandt, Roy G., and Z. Fabian, to Oliver Corp. Seed planter. 3,182,863, 5-11-65, Cl. 222-328.
- Brandt, Theodore C., and K. M. Hobbs, to General Electric Co. Air conditioning unit. 3,174,541, 3-23-65, Cl. 165-122.
- Brandt, Virgil T. Buoyant swimming device. 3,170,175, 2-23-65, Cl. 9-337.
- Brandt, Wilhelm, to Kalle Aktiengesellschaft. Manufacture of photo-sensitive films. 3,169,867, 2-16-65, Cl. 96-87.
- Brandt, William E., to International Business Machines Corp. Error detecting and correcting circuit. 3,209,327, 9-28-65, Cl. 340-146.1.
- Brandtjen, Henry A., Jr. Squeeze impact press for leaf stamping, embossing and the like. 3,166,009, 1-19-65, Cl. 101-10.
- Brandts, Theodor G., D. E. Helleur, R. M. Hopkins, and R. G. Bolvin, to Consolidated Paper (Bahamas) Ltd. Fibrous products from barking waste. 3,224,925, 12-21-65, Cl. 162-93.
- Brandwood, Grace: See—
- Brandwood, Joseph and G. 3,202,404.
- Brandwood, Joseph and G. Flow control devices in a carburetor. 3,202,404, 8-24-65, Cl. 261-39.
- Brandbar, Nick G.: See—
- Brewer, Franklin T., and Brandbar. 3,178,287.
- Brandbar, Nick G., to Minnesota Mining and Mfg. Co. Photographic stripping film. 3,168,402, 2-2-65, Cl. 96-83.
- Brandt, Charles E. Device for supporting tire casings in retreading molds. 3,192,570, 7-6-65, Cl. 18-45.
- Brandman, George E.: See—
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Brewster, Franklin C., C. L. Shano, and A. G. Ocken, Jr., to Motorola, Inc. Generating system. 3,226,581, 12-28-65, Cl. 310-59.
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- Brick, Robert M., R. B. Mesrobian, and A. Hansson, to Continental Can Co., Inc. Preparation of laminate metal stock by use of organic anti-welding materials. 3,214,251, 10-26-65, Cl. 29-183.
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- Bride, John E., to Diamond Alkali Co. Electroplating. 3,202,589, 8-24-65, Cl. 204-32.
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- Bridges, Roy G., R. N. Aleson, D. B. Hutchings, R. E. Whited, and M. L. Dyrness, to Tempo Plastic Co., Inc. Expandable bead molding. 3,224,040, 12-21-65, Cl. 18-5.
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- Bridwell, Harold C., and D. S. Rowley, to Jersey Production Research Co. Process for making metal carbide hard surfacing material and composite casting. 3,175,260, 3-30-65, Cl. 22-202.
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- Bridwell, Robert A., to Northrop Corp. Lamp holder. 3,188,459, 6-8-65, Cl. 240-47.
- Brieche, Joseph, to Scovill Mfg. Co. Method of making and assembling the components of an aerosol dispenser button. 3,192,611, 7-6-65, Cl. 29-157.
- Brieche, Joseph, and O. F. Van Brocklin, to Scovill Mfg. Co. Aerosol dispenser button. 3,226,040, 12-28-65, Cl. 239-496.
- Bried, Edward A., to Hercules Powder Co. Epoxidation of tall oil fatty acids and esters. 3,207,743, 9-21-65, Cl. 260-97.5.
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- Brierley, Cuthbert. Eartags. 3,214,856, 11-2-65, Cl. 40-301.
- Briese, John E. Head supported amusement device operable by movement of user's head and body. 3,216,149, 11-9-65, Cl. 46-47.
- Brieske, Bernard F., to Vision Wrap Industries, Inc. Grommet bag. 3,208,660, 9-28-65, Cl. 229-53.
- Brietake, Adrian P., to Northern Engraving and Mfg. Co. Screw-type conveyor system. 3,191,762, 6-29-65, Cl. 198-213.
- Briegel, Jurg H. Vibrator for compacting the bed and surfacing of roads. 3,181,442, 5-4-65, Cl. 94-48.
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- Briggs, George R., to Radio Corp. of America. Methods of making a sheet array of magnetic metal elements. 3,206,342, 9-14-65, Cl. 156-11.
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- Briggs, George R., to Radio Corp. of America. Memory systems having flux logic memory elements. 3,206,733, 9-14-65, Cl. 340-174.
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- Briggs, Hartwell L., C. B. Lawyer, and G. C. Huett, to Eugene Dietzgen Co. Thermographic reproduction paper and method of using. 3,174,038, 3-16-65, Cl. 250-63.
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- Brightman, Barrie, to General Dynamics Corp. Signaling generator. 3,164,681, 1-5-65, Cl. 179-84.
- Brightman, Barrie, J. G. Pearce, and M. P. Tubinis, to General Dynamics Corp. Electronic switching telephone system. 3,176,077, 3-30-65, Cl. 179-18.
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- Brightman, John W., P. G. Cowley, and J. B. Loop, to The Nylock Corp. Machine for making lock nuts. 3,170,176, 2-23-65, Cl. 10-72.
- Brighton, John C., to Arvin Industries, Inc. Refuse container. 3,198,428, 8-3-65, Cl. 232-43.2.
- Brighton, John C., and L. C. Fisher, to Arvin Industries, Inc. Refuse container. 3,179,332, 4-20-65, Cl. 232-43.2.
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- Brigman, Walter L. Valve arrangement for well pumps. 3,225,696, 12-28-65, Cl. 103-6.
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- Brill, Edward F., to Allis-Chalmers Mfg. Co. Insulating means for flow channel in MHD device. 3,215,870, 11-2-65, Cl. 310-11.
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- Brill, Edward F., to Allis-Chalmers Mfg. Co. Electrode means for MHD device. 3,219,852, 11-23-65, Cl. 310-11.
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- Brinck, Paul F., and J. R. Jack, to United States of America, National Aeronautics and Space Administration. Electro-thermal rockets having improved heat exchangers. 3,210,927, 10-12-65, Cl. 60-35.5.
- Brink, David E.: See—
Zabel, Norman R., and Brink. 3,192,533.
- Brink, David L., to Weyerhaeuser Co. Method for fractionating aqueous extracts from barks of trees. 3,189,596, 6-15-65, Cl. 260-209.
- Brink, Elmar S. Extinguishing ash tray. 3,196,882, 7-27-65, Cl. 131-236.
- Brink, Robert V. Portable water softener. 3,204,770, 9-7-65, Cl. 210-282.
- Brink, Virginia M.: See—
Zabel, Norman R., and Brink. 3,192,533.
- Brinkel, Arthur B., Jr.: See—
Freed, Jacob B., and Brinkel. 3,211,475.
- Brinkel, Edwin P., and D. B. Abbott, to Ross Operating Valve Co. Electrical connector. 3,173,736, 3-16-65, Cl. 339-176.
- Brinker, Emil F., and D. P. Fitzsimmons, deceased (by M. E. Fitzsimmons, executrix), to Westinghouse Air Brake Co. Automatic control system for railway classification yards. 3,226,541, 12-28-65, Cl. 246-182.
- Brinker, John H., to The Globe-Wernicke Co., a division of Globe-Wernicke Industries, Inc. Filing drawer construction. 3,179,480, 4-20-65, Cl. 312-214.

Brinker, Keith C., and C. E. Schweitzer, to E.I. du Pont de Nemours, and Co. Stabilized polyoxymethylene. 3,183,211, 5-11-65, Cl. 260-67.

Brinkerhoff, Joris M., to Laboratory for Electronics, Inc. Narrow band X-ray detector. 3,176,130, 3-30-65, Cl. 250-51.5.

Brinkerhoff, Joris M., to Laboratory for Electronics, Inc. System for recognition of particular distributions of pulses representing an input waveform. 3,185,926, 5-25-65, Cl. 324-77.

Brinkman, Earl W., and R. A. Lee, to Davenport Machine Tool Co., Inc. Indicia rolling attachment in screw machines. 3,205,813, 9-14-65, Cl. 101-7.

Brinkman, John A., C. J. Meehan, and H. M. Dieckamp, to North American Aviation, Inc. Method for artificial synthesis of diamonds. 3,175,885, 3-30-65, Cl. 23-209.1.

Brinkmann, Gerhard: See—

Zillmer, Erich, and Brinkman. 3,165,971.

Brinkmann, Harry A. C. Tenpin. 3,224,770, 12-21-65, Cl. 273-82.

Brinster, John F., to General Devices, Inc. Transistorized voltage regulator. 3,214,668, 10-26-65, Cl. 318-345.

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Brinton, David B. Educational testing system. 3,186,109, 6-1-65, Cl. 35-9.

Briolini, Enzo, to Polysius G.m.b.H. Crusher. 3,186,651, 6-1-65, Cl. 241-186.

Brislin, Richard F., and J. H. McSkimming, to Highway Equipment Co. Fertilizer wagon. 3,184,243, 5-18-65, Cl. 275-6.

Briscoe, George H., to Lacy-Hulbert and Co. Ltd. Vane-type rotary air pumps. 3,201,033, 8-17-65, Cl. 230-152.

Briscoe, Josiah A., to Imperial Chemical Industries Ltd. Rotating tools and grinders mounted on revolving toolholder for cutting artificial filaments. 3,218,898, 11-23-65, Cl. 83-174.

Briskin, J., Inc.: See—

Davis, John E. 3,199,788.

Briskin, Joseph, and C. H. Schramm, to J. T. Baker Chemical Co. Extrusion-devolatilization process. 3,207,205, 9-21-65, Cl. 159-47.

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Brison, Robert L., and E. H. Jacobsen, to Hiller Aircraft Co., Inc. Vehicle work platform. 3,166,277, 1-19-65, Cl. 244-129.

Brisse, Andre H., and D. E. Rohaus, to United States Steel Corp. Method of briquetting iron oxide fines. 3,174,846, 3-23-65, Cl. 75-3.

Brisse, William C., to Laconia Malleable Iron Co., Inc. Ground anchoring system. 3,186,523, 6-1-65, Cl. 189-2.

Brisson, Louis C. Lever actuated brake. 3,184,010, 5-18-65, Cl. 188-78.

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Huge, Ernest C., and Brister. 3,196,842.

Brister, Paul M., O. R. Carpenter, G. F. Friese, J. F. Harvey, and J. W. Leonard, Jr., to The Babcock & Wilcox Co. Pressure vessel construction. 3,221,925, 12-7-65, Cl. 220-73.

Bristol Aero-Industries Ltd.: See—

Hovey, Charles M. 3,199,710.

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Fisher, William T. 3,173,520.

Napier, William, and Ranford. 3,173,594.

Bristol Aeroplane Plastics Ltd.: See—

Baker, William A., Shoemack, and Richens. 3,201,298.

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Madeux, Robert S. 3,199,722.

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Bristol, Edward S., to Leeds and Northrup Co. Load frequency control system. 3,191,051, 6-22-65, Cl. 307-57.

Bristol, Edward S., to Leeds and Northrup Co. Methods and systems for control of generating units with minimum steam losses. 3,210,555, 10-5-65, Cl. 290-40.

Bristol-Myers Co.: See—

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Johnson, David A., and Hardcastle. 3,221,046.

Johnson, David A., and Hardcastle. 3,225,033.

Johnson, David A., and Panetta. 3,198,804.

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Schmitz, Henry, and De Vault. 3,185,675.

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Ackland, Douglas E., and Wright. 3,174,280.

Amos, Frederick W., Wheatley, Wickens, and Mangles. 3,196,526.

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Denning, Ralph M., and Lane. 3,211,401.

Davis, Robert H., and Dakin. 3,176,540.

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Osborne, Leonard A., and Rivers. 3,185,605.

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Bristovish, Thomas G., to Edwards Co., Inc. Electric reset gravity drop adapted for use in annunciators. 3,187,230, 6-1-65, Cl. 317-187.

Bristow, Gavin C.: See—

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Bristow, Robert H., to General Electric Co. Ceramic articles and methods of making. 3,167,438, 1-26-65, Cl. 106-46.

Bristow, William T., Jr. Erection apparatus. 3,211,427, 10-12-65, Cl. 254-89.

Britan, J. W., to Mobay Chemical Co. Polyurethane plastics made with a triol bearing strictly secondary hydroxyl groups. 3,216,973, 11-9-65, Cl. 260-77.5.

Brite, Alan D. Process for cleaning ovens. 3,196,046, 7-20-65, Cl. 134-22.

Brite, Daniel W., and K. R. Sump, to United States of America, Atomic Energy Commission. Fabrication of shapes by pneumatic impaction. 3,213,163, 10-19-65, Cl. 264-5.

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British Aircraft Corp. Ltd.: See—

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Crowfoot, Francis R. 3,197,159.

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Utting, Reginald. 3,214,116.

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Ayers, Peter. 3,203,470.

Mann, Ralph J., Alford, and Krzesinski. 3,167,385.

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British Celanese Ltd.: See—

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British Hydrocarbon Chemicals Ltd.: See—

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Lubalin, Irwin J. 3,192,580.

Rohrer, Douglas P. 3,175,498.

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British Insulated Callender's Cables Ltd.: See—

Bannerman, Norman G. 3,192,622.

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Hinds, Ronald. 3,212,531.

British Internal Combustion Engine Research Institute, Ltd., The: See—

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British Iron and Steel Research Assn., The: See—

Baker, Peter N. 3,192,751.

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Black, James C. W., Lawson, and Dobson. 3,197,339.

Burns, Charles. 3,176,806.

Butterfield, Michael H., and Boxall. 3,175,776.

British Iron and Steel Research Assn., The: See—Continued

Green, John I. 3,170,341.

Sturgeon, George M. 3,181,977.

Wilson, Ian. 3,190,098.

Wistreich, John G. 3,175,382.

Wistreich, John G., and Baker. 3,167,978.

British Nylon Spinners Ltd.: See—

Carter, John A. 3,193,535.

Clemon, Philip F., Briggs, Willson, and Carter. 3,185,672.

Iwnicki, Kurt, and Miller. 3,167,846.

Iwnicki, Kurt, and Miller. 3,200,467.

Iwnicki, Kurt, and Miller. 3,205,554.

Jenkins, Donald G., and Clapson. 3,196,602.

Thomas, James F., and Wood. 3,172,249.

Van Blerk, Victor B. 3,177,556.

British & Overseas Minerals Ltd.: See—

Carpenter, George. 3,201,009.

British Oxygen Co. Ltd., The: See—

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Bracken, Arthur, and Wilton-Davies. 3,192,106.

Burden, Clive A., and Wylie. 3,205,339.

Freeth, William E., and Mitchell. 3,221,136.

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Garrett, Michael E. 3,221,511.

King, Charles H. 3,205,067.

Molnar, William. 3,191,795.

Swan, Allan H. B., and Waller. 3,164,714.

Tomkins, Alan G. 3,191,843.

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British Petroleum Co. Ltd., The: See—

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Bourne, Kenneth H., and Holmes. 3,215,751.

Champagnat, Alfred. 3,186,922.

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Demeester, Jacques. 3,205,167.

Demeester, Jacques. 3,205,180.

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Evans, Norman, and Wiles. 3,224,838.

Goble, Anthony G., Haresnape, and O'May. 3,218,267.

Hambling, James K., and Alderson. 3,207,812.

Haresnape, John N., and White. 3,167,499.

Holbourne, Peter G. 3,187,557.

Hyde, John W. 3,208,932.

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Rowland, John, and Knight. 3,190,830.

Sparke, Maurice B., and Wenham. 3,205,282.

Tucker, Maurice J., and Williams. 3,213,964.

Wenham, Alan J. M., and Sparke. 3,202,691.

Wilson, Ronald D., and Rendle. 3,167,039.

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Yeo, Alan A., Hambling, and Alderson. 3,190,937.

British Ship Research Association, The: See—

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British Straddle Carrier Co. Ltd.: See—

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British Telecommunications Research Ltd.: See—

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Ancrum, Robert W., and Evans. 3,203,881.

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Evans, Arthur W., Arkless, and Callow. 3,219,468.

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Hansford, Kenneth R., Roberts, Evans, and Hughes. 3,195,981.

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British Welding Research Association: See—

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Brittain, Edward G., and W. A. Stein, to Aerojet-General Corp. Signal control apparatus. 3,182,227, 5-4-65, Cl. 317-142.

Brittain, Francis H., to Hazeltine Research, Inc. Loudspeaker. 3,200,900, 8-17-65, Cl. 181-32.

Brittain, Thomas P., and R. N. Roley. Apparatus for anchoring, mooring, towing or otherwise securing or attaching a line to a boat. 3,166,038, 1-19-65, Cl. 114-230.

Britton, John L. Computer. 3,209,471, 10-5-65, Cl. 35-48.

Britton, George C., to Injection International, Inc. Apparatus for molding hollow articles. 3,187,381, 6-8-65, Cl. 18-5.

Britton, Harold H.: See—

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Britton, Robert W. Harness racing sulky. 3,173,706, 3-16-65, Cl. 280-63.

Britton, Colin F.: See—

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Britton Corp., The: See—

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Britton, Donald H., W. A. Hoyer, and R. C. Rumble, to Esso Production Research Co. Temperature stabilized radiation detectors. 3,182,725, 7-6-65, Cl. 62-3.

Britton, Earl E.: See—

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Britton, Edgar C., and F. L. Beman, to The Dow Chemical Co. Process for separating dichlorobenzene isomers. 3,170,961, 2-23-65, Cl. 260-650.

Britton, Gene W., to Phillips Petroleum Co. Pitch recovery and its utilization in a cracking process. 3,200,062, 8-10-65, Cl. 208-87.

Briley, John C., Jr., to Texas Instruments Inc. Method of making transistor. 3,210,225, 10-5-65, Cl. 148-187.

Briley, William H. Telemetering system for use with telegraph transmission. 3,201,755, 8-17-65, Cl. 340-151.

Brixite Ltd.: See—

Williams, William T. 3,217,069.

Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Thermoelectric compositions of Tax W_{1-x} Se₃. 3,197,410, 7-27-65, Cl. 252-62.3.

Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Thermoelectric compositions and methods of preparing same. 3,208,947, 9-28-65, Cl. 252-62.3.

Brixner, Lothar H., to E. I. du Pont de Nemours, and Co. Thermoelectric compositions and process for producing same. 3,223,640, 12-14-65, Cl. 252-62.3.

Brizon, Jean M. A. Rod-mills used especially for the manufacture of inks and paints. 3,206,129, 9-14-65, Cl. 241-241.

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Broad Street Machine Co., Inc.: See—

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Broadbent, Kent D., to Hughes Aircraft Co. Thin film magnetic device. 3,172,089, 3-2-65, Cl. 340-174.

Broadbent, Stanley. Debarker. 3,176,734, 4-6-65, Cl. 144-208.

Broadbush, Charles D., to The Procter & Gamble Co. Process for isomerizing the double bond of straight chain terminal monolefins. 3,185,744, 5-25-65, Cl. 260-683.2.

Broadfoot, John T., 45% to Roger L. Culbertson. Deformable hose fluid pump. 3,180,272, 4-27-65, Cl. 103-149.

Broadhead, James H., J. E. Hamilton, and L. E. Martine, to Utility Tool Co. Apparatus for making an annular cut in a cylindrical-like article. 3,222,961, 12-14-65, Cl. 82-70.2.

Broadhead, Paul S.: See—

Francis, Jack V., and Broadhead. 3,222,526.

Broadhead, Ronald L., to Standard Oil Co. Carbon paper ink containing a trimellitic acid-alkanol-neopentyl glycol polyester. 3,165,484, 1-12-65, Cl. 260-28.

Broadhead, Ronald L., to Standard Oil Co. Alkyd resin with fungicidal property. 3,179,608, 4-20-65, Cl. 260-22.

Broadhead, Ronald L., to Standard Oil Co. Method of polishing leather. 3,183,119, 5-11-65, Cl. 117-142.

Broadhead, Samuel L., Jr., to Collins Radio Co. Transistorized noise pulse blanking network including feedback means. 3,167,721, 1-26-65, Cl. 330-19.

Broadhead, Samuel L., Jr., to Collins Radio Co. Frequency discriminator circuit. 3,204,190, 8-31-65, Cl. 329-119.

Broadhead, Samuel L., Jr., to Collins Radio Co. Digital stabilized master oscillator with auxiliary high frequency loop. 3,212,023, 10-12-65, Cl. 331-11.

Broadhead, Samuel L., Jr., D. L. Fredrickson, and R. G. Vinson, to Collins Radio Co. SSB-FM detector. 3,182,261, 5-4-65, Cl. 325-315.

Broadhead, Samuel L., Jr., and J. F. McInerney, to Collins Radio Co. Synchronous communication system. 3,217,255, 11-9-65, Cl. 325-64.

Broadley, Ezra R., to Wharfedale Wireless Works Ltd. Loudspeaker assembly. 3,187,832, 6-8-65, Cl. 131-31.

Broadley, Robert D., and L. F. Kells, to Allied Chemical Corp. Compositions of fluorocarbons. 3,173,872, 3-16-65, Cl. 252-67.

Broadrick, Lawson K. Container stand and cart. 3,188,109, 6-8-65, Cl. 280-47.26.

Broadway, Ralph H., to C. S. Pruscha, and E. C. Berg. Divided lane highway guard. 3,185,445, 5-25-65, Cl. 256-13.1.

Broadwell, Robert J., to Maremont Corp. Load-supporting damper unit. 3,173,671, 3-16-65, Cl. 267-64.

Broadwin, Samuel. Centrifugal freeze drying apparatus. 3,203,108, 8-31-65, Cl. 34-58.

Broadwin, Samuel M. Apparatus for shell freezing of heat sensitive liquids. 3,199,216, 8-10-65, Cl. 34-92.

Broadwell, William N., T. W. Liddle, and K. J. Brimley, to Imperial Chemical Industries Ltd. Melt spinning process. 3,193,516, 7-6-65, Cl. 260-29.1.

- Brocard, Jean M. R. Lift modification for aircraft. 3,184,185, 5-18-65, Cl. 244-42.
- Broce, Thomas C., to International Business Machines Corp. Electronic circuit for complementing binary coded decimal numbers. 3,207,888, 9-21-65, Cl. 235-174.
- Broch, Frederick J. Remote-controlled lock. 3,188,129, 6-8-65, Cl. 292-341.16.
- Brochetti, Raymond E. Injection molding machine. 3,204,294, 9-7-65, Cl. 18-30.
- Brochier, Pierre, R. Kloos, and J. H. Cocquart, to Compagnie des Machines Bull (Societe Anonyme). Modular package unit for electrical components. 3,225,260, 12-21-65, Cl. 317-101.
- Brochner, Ronald E., and V. H. Miller, to English Clays Lovering Pochin & Co. Ltd. Method of drying an insoluble particulate material. 3,186,102, 6-1-65, Cl. 34-10.
- Brock, Bert D., to Thompson Ramo Wooldridge Inc. Electrical connection utilizing tamped gold foil. 3,205,297, 9-7-65, Cl. 174-68.5.
- Brock, Carl M., R. F. Drees, and J. F. Smith, to E. I. du Pont de Nemours and Co. Preparation of 1,1-difluoroethane. 3,190,930, 6-22-65, Cl. 260-63.6.
- Brock, Charles R., and R. J. Cyr, to Bendix Corp. Underwater telephone. 3,218,607, 11-16-65, Cl. 340-5.
- Brock, Edward L., to Brockstone Chemical Co. Timed spray unit. 3,172,604, 3-9-65, Cl. 239-70.
- Brock, Frank H., to See—
Robinson, John W., and Brock. 3,218,177.
- Brock, Frank M., and L. A. Manaresi, to Radio Corp. of America. Polarity responsive switching circuit for reducing decision ambiguity. 3,210,570, 10-5-65, Cl. 307-88.5.
- Brock, Gordon R., to Sterling Precision Corp. Bracket for holding fire extinguishers. 3,194,529, 7-13-65, Cl. 248-313.
- Brock, Henry W., to See—
Reid, James S., and Brock. 3,188,062.
- Brock Industries, Inc., to See—
Volsine, Leo G. 3,217,746.
- Brock and Rankin, Inc., to See—
Hildmann, William B. 3,180,253.
- Rankin, Edward C. 3,205,894.
- Brocken, Karl, to Anfinson Plastic Molding, Inc. Pouring spout and cover therefor. 3,201,011, 8-17-65, Cl. 222-473.
- Brockett, Bruce W., to The National Cash Register Co. Minute color-forming capsules and record material provided with such. 3,179,600, 4-20-65, Cl. 252-188.3.
- Brockett, Halford E., to Continental Can Co., Inc. Aluminum containing seal liners for beer containers and like substances. 3,195,754, 7-20-65, Cl. 215-39.
- Brockett, Halford E., to Continental Can Co., Inc. Three-piece easy opening crown cap closure. 3,199,705, 8-10-65, Cl. 215-16.
- Brockett, Jay K., and W. B. Handwerk, to Crose-Perrault Equipment Corp. Apparatus for internally cleaning and coating pipe. 3,164,491, 1-5-65, Cl. 118-72.
- Brockett, Peter C., to Laboratory for Electronics, Inc. Timing circuit. 3,192,449, 6-29-65, Cl. 317-142.
- Brockhage, Donald J. Lever releasable closure for bottles or the like. 3,197,056, 7-27-65, Cl. 215-46.
- Brocklander, Leroy H. Offset design instrument. 3,195,233, 7-20-65, Cl. 33-1.
- Brocklebank, Norman, and G. Scott, to Priestman Bros. Ltd. Excavators. 3,169,649, 2-16-65, Cl. 214-138.
- Brocklebank, Norman, and G. Scott, to Priestman Bros. Ltd. Boom construction for a mechanical excavator. 3,173,561, 3-16-65, Cl. 214-138.
- Brocklebank, Norman, R. Wardill, and G. Scott, to Priestman Brothers Ltd. Mechanical excavators. 3,189,203, 6-15-65, Cl. 214-138.
- Brockman, Arthur C. Resilient bushing structure. 3,182,986, 5-11-65, Cl. 267-1.
- Brockman, Francis J., and G. H. Segall, to Canadian Industries Ltd. Stable coating compositions comprising polyepoxide, carboxyl-containing copolymer and tertiary amine catalyst. 3,179,714, 4-20-65, Cl. 260-837.
- Brockman, Frank G., and P. W. Beck, to North American Phillips Co., Inc. Temperature-independent transducer. 3,209,181, 9-28-65, Cl. 310-26.
- Brockman, Henry E., to See—
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- Brockman, Lyle, to See—
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- Brockman, Lyle, to General Signal Corp. Car retarder control system. 3,200,246, 8-10-65, Cl. 246-182.
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- Brockway Glass Co., Inc., to See—
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- Brockway, Marlon C., to United States of America. Atomic Energy Commission. Graphite dispersion. 3,173,973, 3-16-65, Cl. 264-21.
- Brode, Gerald D., to International Business Machines Corp. Signal translating apparatus. 3,183,366, 5-11-65, Cl. 307-88.5.
- Brode, Gerald D., and T. D. Ward, to International Business Machines Corp. Monostable transistor trigger having both transistors normally biased in the non-conducting state. 3,215,832, 11-2-65, Cl. 307-88.5.
- Brodeck, John. Collapsible cart. 3,207,526, 9-21-65, Cl. 280-36.
- Broder, Alan, and H. H. Wakeland, to Sperry Rand Corp. Fluid pressure vibration detector. 3,164,821, 1-5-65, Cl. 340-236.
- Broder, Leonard, deceased, by P. L. Kennedy, administrator, to T. W. Becker, Jr. Electrical connector. 3,204,212, 8-31-65, Cl. 339-14.
- Broderick and Bascom Rope Co., to See—
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- Broderick, Edward, to See—
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- Broderick, Frank W. Transfer roll. 3,167,850, 2-2-65, Cl. 29-121.
- Broderick, John E., and O. M. Behr, to Martin-Marletta Corp. Method of contouring a honeycomb core. 3,225,582, 12-28-65, Cl. 72-373.
- Broderick, John F., to See—
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- Broderick, John P., to See—
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- Brodersen, Rolf K., to See—
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- Brodersen, Rolf K., to General Precision Inc. Optical phase sensitive incremental encoder. 3,192,393, 6-29-65, Cl. 250-235.
- Brodersen, Rolf K., to General Precision Inc. Electromagnetic transducers. 3,192,495, 6-29-65, Cl. 336-135.
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- Brodeur, Charles H., to See—
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- Brodie, Kenneth G., to The Singer Co. Floor polishing and scrubbing machines with liquid dispensers. 3,224,023, 12-21-65, Cl. 15-50.
- Brodl, Edward J., H. L. Dobrkin, and V. Mastis, to Berg Allectro Products Co. Manual release structure. 3,167,973, 2-2-65, Cl. 74-547.
- Brodman, Bruce W., and J. Radell, to United States of America. Army. Urea inclusion compounds of N-alkyl oxiranes. 3,219,654, 11-23-65, Cl. 260-96.5.
- Brodway, Nicolas, to E. I. du Pont de Nemours and Co. Polymers of 3-alkenyl-1,2-epithiopropene. 3,222,324, 12-7-65, Cl. 260-79.7.
- Brodway, Nicolas, to E. I. du Pont de Nemours and Co. Sulfur curable elastomeric polymers of epithiohydrocarbons. 3,222,325, 12-7-65, Cl. 260-79.7.
- Brodway, Nicolas, to E. I. du Pont de Nemours and Co. Polymers of alkylene thioethers. 3,222,326, 12-7-65, Cl. 260-79.7.
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- Broekhuysen, William C., to G-V Controls Inc. Vibration suppression. 3,171,923, 3-2-65, Cl. 200-122.
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- Broerman, Robert A., to See—
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Noel, William J. 3,221,779.
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- Brokop, Alfred, to Container Corp. of America. Collapsible service tray. 3,201,024, 8-17-65, Cl. 229-30.
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- Bromann, Albert H., Jr. Door for refrigerator and the like. 3,175,254, 3-30-65, Cl. 20-19.
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- Bromfield, Morton S., and J. D. Ferner. Apparatus for treating shoe uppers. 3,220,033, 11-30-65, Cl. 12-1.
- Bromfield, Morton S., and J. D. Ferner. Process for mulling shoe uppers. 3,220,036, 11-30-65, Cl. 12-142.
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- Bronson, Walter W. Temperature measuring and recording apparatus. 3,190,120, 6-22-65, Cl. 73-343.5.
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- Brook, James E., to The Bendix Corporation. Modulator for low magnitude voltage signals. 3,193,783, 7-6-65, Cl. 332-52.
- Brook, James E., to The Bendix Corp. Frequency compensated phase clock. 3,221,242, 11-30-65, Cl. 321-57.
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- Zaslowsky, Herman, and Rosenfeld. 3,203,197.
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- Brooke, Wendell C., to Atlantic Electronics Corp. Toroid winding machine. 3,210,021, 10-5-65, Cl. 242-4.
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- Brooks, Winfred M., and Moberg. 3,167,340.
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- Brooks, Forrest E., and C. C. Iden, to Radio Corp. of America. High voltage transformer and rectifier tube with direct connection therebetween. 3,201,730, 8-17-65, Cl. 336-107.
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- Brooks, Frank W., and J. O. Helvern, to General Motors Corp. Power brake booster. 3,172,335, 3-9-65, Cl. 91-369.
- Brooks, Fred A., Jr., and J. G. Richardson, to Esso Production Research Co. Well treatment to remove permeability block. 3,185,217, 5-25-65, Cl. 166-42.
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 9-65, Cl. 156-69.
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 Brown, Gaylord W., and D. J. Rise, to Brown Machine Co. of
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 Brown, Gaylord W., and D. J. Rise, to Brown Machine Co.
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 ously casting thermoelectric material. 3,170,205, 2-23-65,
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 Brown, George E., Jr. Disposable windshield canopy. 3,214-
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 Brown, George T., Jr., J. A. Bakan, and D. J. Striley, to The
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 3,196,220, 7-20-65, Cl. 200-6.
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 Brown, Harry W., Sr., to The National Acme Co. Fluid
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Brown, Kenard D. Liquid pump for deep wells. 3,225,697, 12-28-65, Cl. 103-25.

Brown, Kenneth G. W. Reciprocating engines and pumps. 3,207,138, 9-21-65, Cl. 123-50.

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Brown, Lloyd H., and D. D. Watson, to The Quaker Oats Co. Process of producing a foundry core composition. 3,168,489, 2-2-65, Cl. 260-21.

Brown, Lloyd H., and D. D. Watson, to The Quaker Oats Co. Foundry core binder and process for preparation thereof. 3,168,490, 2-2-65, Cl. 260-28.4.

Brown, Lloyd H., and J. W. Hill, to The Quaker Oats Co. Process for producing alkyltin compounds. 3,211,769, 10-12-65, Cl. 260-429.7.

Brown, Lloyd R., to Electro-Mechanical Research Inc. Phase code detecting systems having phase-locked loops. 3,181,122, 4-27-65, Cl. 340-170.

Brown, Lloyd R., to Electro-Mechanical Research, Inc. Pulse code detecting systems. 3,206,681, 9-14-65, Cl. 325-321.

Brown, Lloyd R., to Electro-Mechanical Research, Inc. Frequency modulated signalling system having detachable components for the phase-locked loop detector. 3,218,610, 11-16-65, Cl. 340-171.

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Brown, Marvin A., E. M. Deters, and J. E. Youch, to Red Jacket Mfg. Co. Header construction for underground storage tank. 3,172,572, 3-9-65, Cl. 222-109.

Brown, Marvin A., and E. M. Deters, to Red Jacket Mfg. Co. Motor control box. 3,175,125, 3-23-65, Cl. 317-99.

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Brown, Michael P., and H. B. Silver, to United States Borax & Chemical Corp. Cyclic aminoborane compounds. 3,201,465, 8-17-65, Cl. 260-551.

Brown, Milton, to The Bendix Corp. Display apparatus having drum indicators controlled by individual synchronous motors. 3,184,731, 5-18-65, Cl. 340-315.

Brown, Milton, to The Bendix Corp. Electrically controlled positioning means. 3,193,813, 7-6-65, Cl. 340-201.

Brown, Milton G., and F. Platner, to Armstrong Cork Co. Shaping tool for cellular polystyrene. 3,196,586, 7-27-65, Cl. 51-394.

Brown, Milton T., to Display Corp. of America. Versatile sample carrier. 3,197,101, 7-27-65, Cl. 224-45.

Brown, Morden G., to American Optical Co. Display apparatus. 3,164,918, 1-12-65, Cl. 40-130.

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Brown, Morton, to E. I. du Pont de Nemours and Co. 1,2-bis (di-alkylamino)-1,2-dicyanooxyethylene and N,N'-bis (a-fluorodialkylaminomethyl) uretidine diones. 3,214,412, 10-26-65, Cl. 260-77.5.

Brown, Morton, to E. I. du Pont de Nemours and Co. Substituted acetonitriles and their synthesis. 3,214,428, 10-26-65, Cl. 260-251.

Brown, Murrel A., to Dow Corning Corp. Organopolysiloxane isocyanate composition for imparting scuff resistance and water repellency to leather. 3,179,713, 4-20-65, Cl. 260-825.

Brown, Murrel A., to Dow Corning Corp. White water repellent. 3,215,664, 11-2-65, Cl. 260-41.

Brown, Ned C. L., to General Signal Corp. Railway car retarder and control thereof. 3,169,736, 2-16-65, Cl. 246-182.

Brown, Ned C. L., to General Signal Corp. Automatic car retarder control system. 3,200,245, 8-10-65, Cl. 246-182.

Brown, Nell. Collapsible frame. 3,169,544, 2-16-65, Cl. 135-5.

Brown, Nell F., M. W. Lutz, and H. J. Kimmerle, to G. H. Tennant Co. Scrubbing machine. 3,197,798, 8-3-65, Cl. 15-320.

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Brown, Noel E., to Avco Corp. Amplitude noise control gate. 3,191,124, 6-22-65, Cl. 325-478.

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Brown, Norman F., to Otis Engineering Corp. Check valve for use in a tubular flow conductor. 3,200,837, 8-17-65, Cl. 137-496.

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Brown, Northrop, and W. E. Grigsby, to E. I. du Pont de Nemours and Co. Stabilization of polyoxymethylene. 3,192,182, 6-29-65, Cl. 260-67.

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Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Sili-con-bonded polyhydrocarboxy organopolysiloxanes and one-component room temperature cured compositions containing said organopolysiloxanes and condensation catalysts. 3,170,894, 2-23-65, Cl. 260-46.5.

Brown, Ray. Energy-absorbing headrest for motor vehicle seats. 3,205,005, 9-7-65, Cl. 297-397.

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Brown, Raymond E., and T. A. Crugnale. Foul detecting system with transistor output switch. 3,170,689, 2-23-65, Cl. 273-50.

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Brown, Raymond L., and D. F. Downey, to Electrolux Corp. Vacuum cleaner hose. 3,211,623, 10-12-65, Cl. 174-47.

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Brown, Richard E., and R. I. Meltzer, to Warner-Lambert Pharmaceutical Co. Ethynylated lactams and process for their production. 3,219,668, 11-23-65, Cl. 260-294.7.

Brown, Richard E., and R. I. Meltzer, to Warner-Lambert Pharmaceutical Co. 1-acyl substituted quinolizines and process for their production. 3,222,367, 12-7-65, Cl. 260-280.

Brown, Richard E., and R. I. Meltzer, to Warner-Lambert Pharmaceutical Co. Methylsulfinylmethyl ketone derivatives of substituted quinolizines. 3,222,368, 12-7-65, Cl. 260-289.

Brown, Richard J., and R. E. Andeen, to Sperry Rand Corp. Self-adaptive control system. 3,216,676, 11-9-65, Cl. 244-77.

Brown, Richard L., to United States of America, National Aeronautics and Space Administration. Gimbaled, partially submerged rocket nozzle. 3,208,215, 9-28-65, Cl. 60-35.55.

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Brown, Robert H. Safety belt for vehicles. 3,219,361, 11-23-65, Cl. 280-150.

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Brown, Robert J. S., and J. E. Coolidge, 1/2 to Borg-Warner Corp., and 1/2 to California Research Corp. Penetration control for nuclear magnetism well logging. 3,199,022, 8-3-65, Cl. 324-5.

Brown, Robert J. S., and J. E. Coolidge, to Borg-Warner Corp., and California Research Corp. Amplifier input control circuits. 3,204,178, 8-31-65, Cl. 324-5.

Brown, Robert J. S., H. C. Torrey, and J. Korringa, to California Research Corp. Methods for investigating the properties of fluid (materials) within porous media. 3,213,356, 10-19-65, Cl. 324-5.

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Brown, Robert J. S., H. C. Torrey, and J. Korringa, to Chevron Research Co. Spin-echo well logging. 3,220,632, 12-28-65, Cl. 324-5.

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Brown, Robert L., and J. Bugosh, to E. I. du Pont de Nemours and Co. Process for the preparation of water-dispersible fibrous alumina monohydrate. 3,207,578, 9-21-65, Cl. 23-143.

Brown, Robert L., and G. W. Sears, Jr., to E. I. du Pont de Nemours and Co. Forming inorganic fiber material containing cationic starch and colloidal silica. 3,224,927, 12-21-65, Cl. 162-155.

Brown, Robert M., R. Lavine, W. Coleman, and M. E. Levin. Fluoridation apparatus. 3,191,868, 6-29-65, Cl. 239-315.

Brown, Robert N., C. R. A. Johnson, and A. E. Paschke, to Leeds and Northrup Co. Multiple-point recorders. 3,195,141, 7-13-65, Cl. 346-61.

Brown, Robert R., and L. E. Daum, to Elastic Stop Nut Corp. of America. Waterproof electrical connector. 3,166,371, 1-19-65, Cl. 339-60.

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Brown, Roger S.: See—

Miller, August L., Weller, and Brown. 3,205,535.

Brown, Roger W., to Pneumo-Dynamics Corp. Stock reel. 3,166,963, 1-26-65, Cl. 82-38.

Brown, Roger W., to Pneumo-Dynamics Corp. Multiple spindle cam shaft lathe. 3,180,188, 4-27-65, Cl. 82-3.

Brown, Roger W., S. G. Moss, and P. P. Matthews, to Pneumo Dynamics Corp. Automatic thread chasing mechanism. 3,209,628, 10-5-65, Cl. 82-5.

Brown, Ronald W., and W. Earhart, to The Trane Co. Induction unit. 3,198,246, 8-3-65, Cl. 165-35.

Brown, Ross K.: See—

Browning, Edgar P., and Brown. 3,182,777.

Brown, Roy L., to Westinghouse Electric Corp. Shielding means for electrical apparatus. 3,183,462, 5-11-65, Cl. 336-84.

Brown, Roy L., to Westinghouse Electric Corp. Magnetic core structures. 3,201,733, 8-17-65, Cl. 336-217.

Brown, Russell, and R. Brown. Drive-in food tray. 3,194,186, 7-13-65, Cl. 108-46.

Brown, Russell A., to General Electric Co. Electric controller. 3,198,987, 8-3-65, Cl. 317-13.

Brown, Russell H.: See—

Kawahara, Fred K., and Brown. 3,206,493.

Brown, Ruth: See—

Brown, Russell and R. 3,194,186.

Brown, Sally N. Dry mops. 3,196,475, 7-27-65, Cl. 15-228.

Brown Shoe Co., Inc.: See—

Johnson, Curtis R. 3,170,253.

Brown, Silas A., to Buckbee-Mears Co. Photoprinting apparatus. 3,199,430, 8-10-65, Cl. 95-73.

Brown, Silas A., to Buckbee-Mears Co. Forming dome-shaped mesh. 3,213,658, 10-26-65, Cl. 72-47.

Brown, Smith H., and A. J. Gursey. Coordinate positioning and measuring apparatus. 3,177,585, 4-13-65, Cl. 33-1.

Brown, Stanley C.: See—

Alexander, John O., Hargreaves, and Brown. 3,173,191.

Brown Steel Tank Co.: See—

Brown, Walter V. 3,168,906.

Brown, Walter V. 3,191,541.

Brown, Walter V. 3,205,823.

Brown, Steffen A. Centrifugal switch embodying magnets. 3,194,014, 7-13-65, Cl. 200-80.

Brown, Stewart S. Kindergarten rest mat. 3,222,695, 12-14-65, Cl. 5-344.

Brown, Sylvester C.: See—

Ford, Robert M., and Brown. 3,214,852.

Brown, Terence J., R. D. E. Eldred, and W. A. North, to United Shoe Machinery Corp. Machines for vulcanizing soles onto shoe bottoms. 3,203,049, 8-31-65, Cl. 18-17.

Brown, Thoburn C., to Clark Equipment Co. Joint for metal floor sections and the like. 3,197,934, 8-3-65, Cl. 52-595.

Brown, Thomas C. Automatic variable pitch propeller. 3,204,702, 9-7-65, Cl. 170-160.53.

Brown, Thomas H., to The Smith and Winchester Mfg. Co. Paper trimming machine and anti-backlash positional servo system therefor. 3,193,745, 7-6-65, Cl. 318-29.

Brown, Thomas O., Jr.: See—

Lang, Gus W. 3,176,372.

Brown, Thomas T., to Electrokinetics, Inc. Electrokinetic apparatus. 3,187,206, 6-1-65, Cl. 310-5.

Brown, Thomas T., to Electrokinetics, Inc. Electric generator. 3,196,296, 7-20-65, Cl. 310-11.

Brown, Thomas W. F., to The British Ship Research Association. Mechanism for controlling the rate of rise of pressure and the maximum pressures in high-rate internal combustion engines. 3,194,222, 7-13-65, Cl. 123-33.

Brown, Vada L. Jr., and T. E. Stanin, to Eastman Kodak Co. N-substituted derivatives of 3-azabicyclo[3.2.2]nonane. 3,173,009, 3-16-65, Cl. 260-239.

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Gaske, Joseph E., and Brown. 3,211,693.

Brown, Walter V., to Brown Steel Tank Co. Disconnectible coupling. 3,168,906, 2-9-65, Cl. 137-627.5.

Brown, Walter V., to Brown Steel Tank Co. Rotary fluid device. 3,191,541, 6-29-65, Cl. 103-136.

Brown, Walter V., to Brown Steel Tank Co. Pump regulating system. 3,205,823, 9-14-65, Cl. 103-3.

Brown, Walter W., M. E. Gottfredson, and R. O. Pabst, to Pacific States Cast Iron Pipe Co. Enameling composition and method of application. 3,178,323, 4-13-65, Cl. 148-134.

Brown, Warren D. Apparatus for spraying wet cementitious materials. 3,212,759, 10-19-65, Cl. 259-151.

Brown, Warren G., to International Telephone and Telegraph Corp. Pulse code modulation coder. 3,201,777, 8-17-65, Cl. 340-345.

Brown, Wilbert C.: See—

Batin, Thomas R., Brown, and Pharis. 3,176,079.

Brown, Wilbur A., to Monsanto Co. Unloading device. 3,207,560, 9-21-65, Cl. 302-52.

Brown, Wilburn K., to Pettibone Mulliken Corp. Multi-conduit hydraulic swivels. 3,181,898, 5-4-65, Cl. 285-137.

Brown, Wilfred K., and E. M. Jones, to D. H. Baldwin Co. Optical encoder. 3,205,491, 9-7-65, Cl. 340-347.

Brown, William. Mixing valve. 3,219,325, 11-23-65, Cl. 261-159.

Brown, William B., to Western Electric Co., Inc. Method of dynamic balancing of supply spindles of tapping heads. 3,178,878, 4-20-65, Cl. 57-160.

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Clemence, Charles R., Brown, and Robinson. 3,182,317.

Clemence, Charles R., Robinson, and Brown. 3,182,316.

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- Brown, William C., to National Research Council. Radar system and method for determining the point of burst of a projectile. 3,182,318, 5-4-65, Cl. 343-7.
- Brown, William C., to Sperry Rand Corp. Multilayer circuit assembly with connecting pin. 3,193,788, 7-6-65, Cl. 839-18.
- Brown, William C., to Sperry Rand Corp. Electrical circuitry. 3,193,789, 7-6-65, Cl. 339-18.
- Brown, William C., C. R. Clemence, and E. F. V. Robinson, to National Research Council. Radar system and method for determining a target point on a projectile trajectory. 3,182,319, 5-4-65, Cl. 343-7.
- Brown, William D., to Munsingwear, Inc. Corselet. 3,166,076, 1-19-65, Cl. 128-436.
- Brown, William D., to Brown Mfg. Corp. Trenching machine with power steering mechanism including means for laterally shifting an end of the machine. 3,178,838, 4-20-65, Cl. 37-86.
- Brown, William E.: See—
- Burdick, Richard L., Brown, and Bilbro. 3,224,501.
- Brown, William E., to General Motors Corp. Diode heat sink mounting for dynamoelectric machines. 3,173,038, 3-9-65, Cl. 310-68.
- Brown, William E., to The Western Co. of North America. Explosive charge assemblies. 3,188,955, 6-15-65, Cl. 102-24.
- Brown, William F.: See—
- Thoma, Albert J., Bogert and Brown. 3,189,001.
- Brown, William H., Jr.: See—
- Ryan, Daniel J., and Brown. 3,217,361.
- Brown, William H., Jr., to FMC Corp. Method and apparatus for shaping and stretching beaded edge films. 3,211,816, 10-12-65, Cl. 264-95.
- Brown, William L., to Boyne Products, Inc. Directional signaling apparatus having two electrically isolated switch elements each engageable with pairs of contacts. 3,171,910, 3-2-65, Cl. 200-61.34.
- Brown, William L., to Boyne Products, Inc. Direction and signaling apparatus with space saving contact and switching element arrangement. 3,171,911, 3-2-65, Cl. 200-61.34.
- Brown, William L., to Boyne Products, Inc. Rotary switch assembly. 3,189,701, 6-15-65, Cl. 200-61.88.
- Brown, William L., to Boyne Products, Inc. Directional signal canceling mechanism responsive to relatively large or relatively small turning movements of the vehicle's steering apparatus. 3,190,981, 6-22-65, Cl. 200-61.34.
- Brown, William L., to Boyne Products, Inc. Push rotary switch construction with lost motion contact coupling. 3,204,087, 8-31-65, Cl. 200-156.
- Brown, William L., D. Denny, and M. L. Schmucker, to John Morrell & Co. Method of tenderizing beef. 3,207,608, 9-21-65, Cl. 99-107.
- Brown, William R. Typing aid. 3,179,227, 4-20-65, Cl. 197-190.
- Brown & Williamson Tobacco Corp.: See—
- Fordyce, William B., and Terry. 3,205,791.
- Goodfellow, David S., and Nicholl. 3,203,432.
- Green, Sydney J., and Nicholl. 3,203,432.
- Griffith, Robert E., Johnson, and Quinn. 3,174,485.
- Strubel, David G., and Moll. 3,223,090.
- Browne, Anthony A. B., and J. Mather, to Imperial Chemical Industries Ltd. Process of preparing linear copolyesters of phosphoric acid. 3,226,360, 12-28-65, Cl. 260-47.
- Browne, Charles M., to Libbey-Owens-Ford Glass Co. Method of producing multiple sheet glazing units. 3,222,153, 12-7-65, Cl. 65-43.
- Browne, Colin L.: See—
- Warner, Joseph S., Ward, and Browne. 3,174,816.
- Browne, Douglas F. Bird feeder. 3,174,459, 3-23-65, Cl. 119-51.
- Browne, Frank L., to O.Z. Electrical Mfg. Co., Inc. End fitting for supporting, sealing and grounding multiconductor armored cable on steel conduit. 3,176,064, 3-30-65, Cl. 174-78.
- Browne, Geoffrey D.A., to North American Phillips Co., Inc. Time division stereophonic signal transmitting and reproducing system having an auxiliary third channel. 3,172,957, 3-9-65, Cl. 179-15.
- Browne, Geoffrey D.A., to North American Phillips Co., Inc. Time division multiplex stereophonic sound transmission system. 3,176,074, 3-30-65, Cl. 179-15.
- Browne, Godfrey H., W. W. Cloer, G. Manning, J. A. McColg, Sr., and T. F. Suggs, to Cocker Machine & Foundry Co. Warper. 3,165,808, 1-19-65, Cl. 28-32.
- Browne, Horace L.: See—
- Anger, Edgar, and Browne. 3,202,451.
- Browne, Horace L., and R. A. Myers, to Ford Motor Co. Vehicle body shake absorber. 3,211,491, 10-12-65, Cl. 296-28.
- Browne, Lindsay H., to De Laval Turbine Inc. Pumps. 3,194,169, 7-13-65, Cl. 103-152.
- Browne, Lindsay H., to De Laval Turbine Inc. Pumps. 3,212,447, 10-19-65, Cl. 103-152.
- Browne, Robert J., and H. K. Hetz, to American Meter Co., Inc. Pump. 3,179,059, 4-20-65, Cl. 103-153.
- Browne & Sharpe Mfg. Co.: See—
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- Tamley, William E. 3,192,798.
- Brownell, George L., and M. C. Hoff, to Oxo Chemical Co. Turpyl alcohol and dicarboxylic acid ester plasticizers thereof. 3,210,311, 10-5-65, Cl. 260-29.8.
- Browner, William J.: See—
- Moss, John I., and Browner. 3,185,939.
- Brownfield, A. R.: See—
- Willmeth, John B. 3,220,500.
- Brownfield, A. R., Jr.: See—
- Willmeth, John B. 3,220,500.
- Browning, Bruce W., and K. R. Lewis, to Browning Industries, Inc. Bow stringer. 3,207,145, 9-21-65, Cl. 124-23.
- Browning, Edgar P., and R. K. Brown, to Deere & Co. Torque-limiting drive. 3,182,777, 5-11-65, Cl. 192-56.
- Browning, Harold, to United States of America, Navy. Flexible conduit for piping and the like. 3,170,720, 2-23-65, Cl. 285-114.
- Browning Industries, Inc.: See—
- Browning, Bruce W., and Lewis. 3,207,145.
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- Browning, James A., to Thermal Dynamics Corp. Electric arc torch. 3,204,075, 8-31-65, Cl. 219-75.
- Browning, James A., to Thermal Dynamics Corp. Electric arc torch. 3,204,076, 8-31-65, Cl. 219-75.
- Browning, James A., to H. E. Fletcher Co. Method of flame working materials. 3,211,242, 10-12-65, Cl. 175-14.
- Browning, James A., and C. A. Pratt, to Thermal Dynamics Corp. Electric arc torches. 3,223,822, 12-14-65, Cl. 219-121.
- Browning, Joe L., and A. J. Coll, to United States of America, Navy. Continuous mixing apparatus. 3,193,991, 7-13-65, Cl. 55-185.
- Browning, John A., to Iowa State University Research Foundation, Inc. Dew sensing device. 3,217,642, 11-16-65, Cl. 73-386.
- Browning, Leslie J., to Inchbrook Printers Ltd. Method of printing on non-absorbent material. 3,164,089, 1-5-65, Cl. 101-426.
- Browning, Lewis M., and C. W. Streed, to Socony Mobil Oil Co. Inc. Catalytic hydrocracking. 3,182,012, 5-4-65, Cl. 208-111.
- Browning, Melvin F.: See—
- Blocher, John M., and Browning. 3,175,922.
- Brownlie, Isaac A., and G. A. Wemyss, to Scottish Agricultural Industries Ltd. Manufacture of granular fertilizers. 3,186,827, 6-1-65, Cl. 71-34.
- Brownlie, Isaac A., and G. A. Wemyss, to Scottish Agricultural Industries Ltd. Manufacture of solid ammonium phosphates. 3,226,184, 12-28-65, Cl. 23-107.
- Brownlow, James M., to International Business Machines Corp. Manganese copper ferrite composition containing titanium and germanium and method of preparation. 3,177,145, 4-6-65, Cl. 252-62.5.
- Brownrigg, Thomas J. Miter box. 3,171,453, 3-2-65, Cl. 143-86.
- Brownscombe, Philip J., to Eugene Dietzgen Co. Viewing device with translational scanning linkage. 3,175,461, 3-30-65, Cl. 88-24.
- Brownscombe, Philip J., to Eugene Dietzgen Co. Photographic reproduction machines. 3,183,767, 5-18-65, Cl. 89-24.
- Brownscombe, Philip J., to Eugene Dietzgen Co. Mirror systems. 3,216,316, 11-9-65, Cl. 88-24.
- Brownscombe, Philip J., to Eugene Dietzgen Co. Projector viewer. 3,224,326, 12-21-65, Cl. 88-24.
- Brownscombe, Philip J., and M. Delgado, to Eugene Dietzgen Co. Projector viewer and image scanning assembly therefor. 3,188,910, 6-15-65, Cl. 88-24.
- Brownson, Clifford H.: See—
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- Brownson, De Witt M., and E. F. Polka, to American Can Co. Apparatus for molding hollow tubular articles. 3,204,293, 9-7-65, Cl. 18-30.
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- Rubinstein, William C., and Brownstein. 3,192,313.
- Brownstein, George, to Paramount Pictures Corp. Subscription-television program-scrambling system. 3,202,768, 8-24-65, Cl. 178-51.
- Brownstein, Paul. Shell-insert combination. 3,217,450, 11-18-65, Cl. 52-213.
- Browner, Nelson R., to Rockwell-Standard Corp. Automatic brake system. 3,167,158, 1-26-65, Cl. 188-141.
- Browner, Nelson R., to Rockwell-Standard Corp. Extensible drive connections. 3,203,202, 8-31-65, Cl. 64-23.
- Browner, Nelson R., to Rockwell-Standard Corp. Tapered springs and methods of manufacturing same. 3,204,944, 9-7-65, Cl. 267-47.
- Browner, Nelson R., to Rockwell-Standard Corp. Gear drives. 3,213,700, 10-26-65, Cl. 74-424.
- Broyles, James D.: See—
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- Broyles, Margaret H., and R. E. Gibson, to Eastman Kodak Co. Antistatic polyethylene compositions containing N,N-diethanol oleamide. 3,206,429, 9-14-65, Cl. 260-45.9.
- Broyles, Ned L. Quick-action interlocking suspension fastener. 3,167,342, 1-26-65, Cl. 294-67.
- Brozek, Mnata, to Chirana Praha, narodni podnik. Automatic adjustment and compensation of the secondary voltage of a transformer. 3,189,816, 6-15-65, Cl. 323-43.6.
- Brozlat, Horst. Apparatus for braking or switching off electric motors. 3,185,876, 5-25-65, Cl. 310-77.

- Brozo, Donald E., to Burroughs Corp. Card stacking apparatus. 3,220,725, 11-30-65, Cl. 271-71.
- Brozowski, Vincent: See—
- Klass, Donald L., and Brozowski. 3,221,849.
- Bruant, Claude, E. Crampon, and J. Martinat, to Societe Alsacienne de Constructions Mecaniques. Circuits for generating wave trains. 3,199,036, 8-3-65, Cl. 328-67.
- Brubaker, David W., and D. E. Danly, to Monsanto Co. Recovery of vanadium and copper values from chemical process streams by ion-exchange. 3,186,952, 6-1-65, Cl. 252-413.
- Brubaker, James F., to General Motors Corp. Ice maker of the endless flexible belt type. 3,199,309, 8-10-65, Cl. 62-345.
- Brubaker, Joseph D., and R. T. Dickerson, to The Dow Chemical Co. Plasticized alkenyl aromatic polymers in admixture with metal alkoxides and alkyls. 3,216,964, 11-9-65, Cl. 260-31.8.
- Brubaker, Lee B. Ham rack assembly. 3,202,086, 8-24-65, Cl. 90-301.
- Brubaker, Robert D., to G. J. Levy. Tone arm mounted dust remover for phonograph record. 3,185,485, 5-25-65, Cl. 274-47.
- Bruce, George D., to International Business Machines Corp. Magnetic storage device and system. 3,213,435, 10-19-65, Cl. 340-174.
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- Bruce, Robert W., to Canada, Her Majesty the Queen in right of, as represented by the Minister of Mines and Technical Surveys. Process for treating high antimony-bearing gold ores. 3,174,848, 3-23-65, Cl. 75-105.
- Bruchschmidt, Hans, to VDO Tachometer Werke Adolf Schindling G.m.b.H. Recording instrument. 3,192,532, 6-29-65, Cl. 346-23.
- Bruck, George, to Arco Corp. Multiple tunnel diode resonant cavity oscillator. 3,189,843, 6-15-65, Cl. 331-107.
- Bruck, George, J. M. Kleinman, and K. H. Dendy, said Bruck and said Kleinman assors, to Arco Corp. Pulse width sensor. 3,209,157, 9-28-65, Cl. 307-88.5.
- Bruck, John P., to American Lincoln Corp. Vacuum cleaner attachment. 3,209,385, 10-5-65, Cl. 15-325.
- Bruck, John P., to The Slinger Co. Grass trimmers. 3,218,710, 11-23-65, Cl. 30-222.
- Bruckner, Byron L., to General Motors Corp. Rotary clothes dryer with direct drive motor and speed reducer assembly. 3,167,409, 1-26-65, Cl. 34-133.
- Bruckner, Byron L., to General Motors Corp. Electromagnetic speed responsive slip clutch. 3,174,595, 3-23-65, Cl. 192-033.
- Bruckner, Byron L., to General Motors Corp. Dry cleaning apparatus. 3,200,622, 8-17-65, Cl. 68-18.
- Bruckner, Byron L., to General Motors Corp. Dry-cleaning apparatus. 3,203,208, 8-31-65, Cl. 68-207.
- Bruckner, Byron L., to General Motors Corp. Countertop dishwasher having dual opposed impellers and a labyrinth door seal. 3,220,426, 11-30-65, Cl. 134-193.
- Bruckner, Byron L., and V. A. Willamitis, to General Motors Corp. Humidity sensing element. 3,167,734, 1-26-65, Cl. 338-35.
- Bruckner, Byron L., and V. A. Willamitis, to General Motors Corp. Dry cleaning filter with adsorbent means. 3,178,025, 4-13-65, Cl. 210-266.
- Bruckner, Byron L., and V. A. Willamitis, to General Motors Corp. Filter for domestic appliance. 3,198,833, 8-3-65, Cl. 210-209.
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- Bruckner, Byron L., J. W. Jacobs, and G. B. Long, to General Motors Corp. Method and apparatus for control of a domestic appliance. 3,216,124, 11-9-65, Cl. 34-45.
- Brucker, William S., to The Black and Decker Mfg. Co. Arcuate motion jig saw. 3,204,470, 9-7-65, Cl. 74-50.
- Brucker-Steinkuhl, Kurt. Control apparatus. 3,170,140, 2-18-65, Cl. 340-149.
- Bruckner, Gernot. Apparatus for stretching strips of plastic material. 3,201,826, 8-24-65, Cl. 18-1.
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- Beerstecher, Wolfgang, Metz, and Bruckner. 3,210,249.
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- Bruckner, Klaus, to E. Merck, Aktiengesellschaft. Steroids possessing anti-phlogistic activities. 3,183,158, 5-11-65, Cl. 167-65.
- Bruckner, Paul, E. Marx, A. Erk, and A. Hartig. Insulated conductor device. 3,209,305, 9-28-65, Cl. 339-61.
- Bruder, Robert I.: See—
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- Brudney, Harry, to Jacoby-Bender, Inc. Restricted tear duct for doll eyes. 3,209,488, 10-5-65, Cl. 46-135.
- Brudney, Harry, to Jacoby-Bender, Inc. Selectively usable winking or blinking doll eye construction. 3,216,150, 11-9-65, Cl. 46-169.
- Brudney, Harry, to Jacoby-Bender, Inc. Mounts for movable doll eyes for stuffed toys. 3,224,140, 12-21-65, Cl. 46-169.
- Brudos, Curtis D.: See—
- Eshelman, Charles R., and Brudos. 3,171,984.
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- Bruecker-Steinkuhl, Kurt. Aircraft proportional navigation. 3,223,357, 12-14-65, Cl. 244-14.
- Brueckmann, Helmut, to United States of America, Army. Antenna with controlled voltage distribution. 3,208,069, 9-21-65, Cl. 343-712.
- Brueckmann, Helmut, to United States of America, Army. Center-fed whip antenna. 3,212,093, 10-12-65, Cl. 343-724.
- Brueckmann, Helmut, to United States of America, Army. Low-loss continuously variable delay line. 3,219,950, 11-23-65, Cl. 333-31.
- Brueckmann, Helmut, to United States of America, Army. Multiple antenna multiplex system. 3,226,724, 12-28-65, Cl. 343-853.
- Bruder, Antoine, to Andre Citroen, Societe Anonyme. Variable pressure means cooperating with the steering shaft of vehicles. 3,183,992, 5-18-65, Cl. 180-79.2.
- Bruder, Antoine, to Andre Citroen Societe Anonyme. Air conditioning system for an automotive vehicle. 3,190,206, 6-22-65, Cl. 98-2.
- Bruder, Antoine, to Andre Citroen Societe Anonyme. Anti-roll devices for automobile vehicles. 3,194,581, 7-13-65, Cl. 280-112.
- Bruder, Antoine, to Andre Citroen Societe Anonyme. Disc brakes with conjugate jaws. 3,198,292, 8-3-65, Cl. 188-73.
- Bruder, Antoine, to Societe Anonyme Andre Citroen. Automatically adjustable brake mechanism. 3,203,508, 8-31-65, Cl. 188-73.
- Brueggemann, Glen R. Stator winding machines. 3,193,208, 7-6-65, Cl. 242-1.1.
- Brueggemann, Harry P., to The Marquardt Corp. Full circumferential viewing system. 3,203,328, 8-31-65, Cl. 95-15.
- Bruenner, Rolf S.: See—
- Oberth, Adolph E., and Bruenner. 3,203,976.
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- Brugioni, Leroy D. Water container for refrigerator door. 3,208,641, 9-28-65, Cl. 222-108.
- Bruglemans, Lucas, to Automatic Electric Laboratories, Inc. Line identifier arrangement for a communication switching system. 3,211,837, 10-12-65, Cl. 179-18.
- Bruilet, Desife: See—
- Bachelet, Glibert H., and Bruilet. 3,182,379.
- Bruljning, Hugo G., to North American Phillips Co., Inc. Stabilized transistor oscillator by means of an overflow circuit with reduced power loss. 3,168,714, 2-2-65, Cl. 331-113.
- Bruin, Pieter, and T. R. Rix, to Shell Oil Co. Curing of an isocyanato modified blend of an olefin copolymer and an unsaturated carboxylic acid. 3,179,716, 4-20-65, Cl. 260-878.
- Brunisma, Josephus F. D., to Klekens-Wervelwind-Holland (Klekens-Whirlwind-Holland) (KWH) N.V. Spraying vehicle. 3,164,324, 1-5-65, Cl. 239-77.
- Brunker, John S., C. O. Walker, and W. J. Weiss, to Texaco Inc. Drilling fluid. 3,177,141, 4-6-65, Cl. 252-8.5.
- Brunker, John S., C. O. Walker, and W. J. Weiss, to Texaco Inc. Drilling fluid. 3,177,142, 4-6-65, Cl. 252-8.5.
- Brule, Jean P., and J. M. Jacquet, to Compagnie I.B.M. France. Digital servo system. 3,211,976, 10-12-65, Cl. 318-28.

- Bruma, Marc, to Centre National de la Recherche Scientifique. Spark machining electrode. 3,208,846, 9-28-65, Cl. 75-153.
- Brumagin, Thomas H., to Ajax Flexible Coupling Co. Inc. Sorting apparatus. 3,211,289, 10-12-65, Cl. 209-90.
- Brumbach, Joseph F., to Victor Comptometer Corp. Circuit-condition indicating system. 3,213,194, 10-19-65, Cl. 178-18.
- Brumbach, Robert E. Fluid dispenser. 3,225,972, 12-28-65, Cl. 222-516.
- Brumbaugh, Robert M., to Midwestern Instruments, Inc. Digital tape transport. 3,189,239, 6-15-65, Cl. 226-95.
- Brumbaugh, Robert T.: See—Hebert, Gerald A., and Brumbaugh. 3,201,983.
- Brumfield, Elvin S.: See—Hand, Ross L., Jr., Brumfield, and Kutzscher. 3,219,824.
- Jung, Kurt, Kutzscher, and Brumfield. 3,209,150.
- Brumfield, Elvin S., and M. F. Braun, to Lockheed Aircraft Corp. Infrared mapping system. 3,191,035, 6-22-65, Cl. 250-83.3.
- Brumfield, Elvin S., O. La Plant, and E. W. Kutzscher, to Lockheed Aircraft Corp. Infrared spectrometer for target detection and tracking. 3,204,101, 8-31-65, Cl. 250-83.3.
- Brumfield, John C., to I-T-E Circuit Breaker Co. Mechanism mounting device for circuit breaker. 3,178,547, 4-13-65, Cl. 200-168.
- Brumfield, John C., to I-T-E Circuit Breaker Co. Over-center cam and anti-rebound means. 3,182,167, 5-4-65, Cl. 200-153.
- Brumfield, John C., and W. W. Poulton, Jr., to I-T-E Circuit Breaker Co. Independent means for adjusting contact pressure and contact arm position. 3,198,924, 8-3-65, Cl. 200-170.
- Brumley, Cowin H., to Bausch & Lomb Inc. Optical cryptographic device. 3,166,625, 1-19-65, Cl. 88-1.
- Brumley, Cowin H., to Bausch & Lomb Inc. Relay actuator circuit. 3,196,319, 7-20-65, Cl. 317-151.
- Brumley, Frank K. L., to Diamond International Corp. Content identification carton. 3,205,603, 9-14-65, Cl. 40-312.
- Brumlow, James A., Jr.: See—Wolick, Joseph F., and Brumlow. 3,222,413.
- Brumm, Carl E.: See—Allman, Orin H., Brumm, and Pither. 3,224,857.
- Brummelkamp, Reinert. Surgical resection instrument and accessory. 3,168,096, 2-2-65, Cl. 128-334.
- Brummer, Richard S.: See—Caldwell, Frank A., and Brummer. 3,191,182.
- Brump, Herbert L., to The Reliance Electric and Engineering Co. Cam operated transversely moving ball clutch. 3,174,603, 3-23-65, Cl. 192-93.
- Brun Corp.: See—Barker, William E., Jr. 3,207,901.
- Brun, Jean. Illuminated display or advertising casing. 3,216,137, 11-9-65, Cl. 40-32.
- Brunberg, Karl G., R. A. Dahlblom, and B. Lillsunde, to Telefonaktiebolaget L M Ericsson. Circuit arrangement in an automatic telephone system for rendering the subscriber's number independent of his location in the selector multiple. 3,205,313, 9-7-65, Cl. 179-22.
- Brundage, Benjamin W. External rotary seal for a swivel joint. 3,186,737, 6-1-65, Cl. 285-45.
- Brundage Co. The: See—Austin, Harold A., and Waldo. 3,186,068.
- Rockafeld, Wilton A. 3,175,755.
- Brundage, James W., to NRM Corp. Tire curing press with dual post inflators. 3,170,187, 2-23-65, Cl. 18-2.
- Brundage, Robert W. Hydraulic pump or motor. 3,188,969, 6-15-65, Cl. 103-126.
- Brundage, Robert W. Hydraulic pump or motor. 3,198,127, 8-3-65, Cl. 103-162.
- Brundell, Per G., and K.-E. A. Jonsson, to Söderhamns Verkstads AB. Rotor for a log debarking machine. 3,171,455, 3-2-65, Cl. 144-208.
- Brundell, Per G., and K.-E. A. Jonsson, to Söderhamns Verkstads AB. Log debarking machine. 3,189,068, 6-15-65, Cl. 144-208.
- Brundell, Per G., and K.-E. A. Jonsson, to Söderhamns Verkstads AB. Roller conveyor. 3,189,162, 6-15-65, Cl. 198-127.
- Brundell, Per G., and K.-E. A. Jonsson, to Söderhamns Verkstads AB. Controlling mechanisms for the tools in a log debarking machine. 3,196,912, 7-27-65, Cl. 144-208.
- Brundell, Per G., and K.-E. A. Jonsson. Machine for debarking felled trees. 3,223,130, 12-14-65, Cl. 144-2.
- Brunder, Ernest C. Drive mechanisms. 3,196,806, 7-27-65, Cl. 104-172.
- Brundige, Maurice M., D. N. Obenshain, J. H. Fredrickson, and H. F. Kohne, Jr., to West Virginia Pulp and Paper Co. Process of manufacturing and finishing coated paper, and resultant product. 3,222,209, 12-7-65, Cl. 117-64.
- Brundige, William L., to Westinghouse Electric Corp. Lamp filament connection. 3,189,778, 6-15-65, Cl. 313-331.
- Brundige, William L., and F. A. Beane, to Westinghouse Electric Corp. Process and apparatus for dosing electrical device. 3,208,812, 9-23-65, Cl. 316-21.
- Brundin, John O. S., and M. W. Gustafson, to Fagersta Bruks Aktiebolag. Turn cutter with concave base surfaces and a holder for such a cutter. 3,220,088, 11-30-65, Cl. 29-96.
- Bründler, Hans. Comminuting machine for meat or other food products. 3,219,081, 11-23-65, Cl. 146-182.
- Bruneau, Jean P., to The Harshaw Chemical Co. Praseodymium-cerium yellow. 3,168,410, 2-2-65, Cl. 106-299.
- Brunel, Andre L. L., and R. M. Mercier. High-speed silent air turbine. 3,193,251, 7-6-65, Cl. 253-56.
- Brunel, Andre L. L., and R. M. Mercier. High speed air turbines. 3,197,176, 7-27-65, Cl. 253-2.
- Brunel, Henri. Process for refining hydrocarbon oils so as to obtain only refined oil and pure oil soluble sulphonates. 3,164,547, 1-5-65, Cl. 208-273.
- Brunell, Richard L., and S. R. Holly, to Combustion Engineering, Inc. Apparatus for disassembling a rotor from its support bearing. 3,193,916, 7-13-65, Cl. 29-240.
- Brunelle, Felix J.: See—Brunelle, John O. 3,210,806.
- Brunelle, John O., 1/2 to F. J. Brunelle. Information retrieval device. 3,210,866, 10-12-65, Cl. 35-74.
- Brunelle, Pierre V. Detachable, adult-size, toilet seat. 3,171,138, 3-2-65, Cl. 4-237.
- Bruner Corp.: See—Rudelick, John. 3,166,091.
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- Rudelick, John. 3,169,110.
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- Bruner, George E.: See—Koral, Jerry N., Bruner, and Daniel. 3,218,280.
- Bruner, Henry K.: See—Stagger, John O., Bruner, and Edlund. 3,190,750.
- Bruner, Per-Olof J. Laboratory test animal cage with hygienic ventilation means. 3,220,383, 11-30-65, Cl. 119-17.
- Brunet, Michel, and E. Deyris, to North American Philips Co., Inc. Device for zone melting. 3,188,373, 6-8-65, Cl. 13-1.
- Brunetto, Frank. Method and apparatus for measuring the forward voltage drop, the forward leakage current, and the reverse leakage current of a controlled rectifier under dynamic conditions. 3,206,675, 9-14-65, Cl. 324-158.
- Brunetz, Nicholas: See—Royer, Thurber W., Brower, and Brunetz. 3,184,351.
- Bruning, William E., 1/2 to International Paper Co., and 1/2 to The Stanley Works. Anchor for freight car panel. 3,218,766, 11-23-65, Cl. 52-377.
- Bruning, William E., to International Paper Co. Temporary door and method. 3,224,496, 12-21-65, Cl. 160-368.
- Bruninga, Willis J., to Keystone Steel & Wire Co. Nailable metal stud. 3,175,651, 3-30-65, Cl. 189-34.
- Brunker, William C., Jr.: See—Eberle, Byron T. 3,206,602.
- Brunn, John: See—Collins, Vardie W., and Brunn. 3,218,658.
- Brunner, Alfred, to Sulzer Freres, S.A. Nuclear reactor vapor-generating plant. 3,164,527, 1-5-65, Cl. 170-59.
- Brunner, Alfred, to Sulzer Freres, Societe Anonyme. Apparatus for control of a steam power plant. 3,166,910, 1-26-65, Cl. 60-107.
- Brunner, Alfred, to Sulzer Freres, S.A. Method and apparatus for influencing the temperature of a fluid leaving a heat exchanger. 3,172,462, 3-9-65, Cl. 165-1.
- Brunner, Alfred, to Sulzer Freres, Societe Anonyme. Systems for selecting among a plurality of incoming signals the signal of extreme value falling short of a limiting value with means for blocking incoming signals beyond that limiting value. 3,173,127, 3-9-65, Cl. 340-147.
- Brunner, Alfred, to Sulzer Freres, S.A. Vapor cooled nuclear reactor. 3,180,798, 4-27-65, Cl. 176-20.
- Brunner, Carl F.: See—Norden, Alexander R., and Brunner. 3,221,121.
- Brunner, David H., to Philco Corp. Stereophonic system employing audio matrixing. 3,164,676, 1-5-65, Cl. 179-1.
- Brunner, Eugen: See—Rinderspacher, Max, Stilli, and Brunner. 3,189,778.
- Brunner, Eugen, to Lonza Electrical and Chemical Works Ltd. Granulating apparatus for plastic sheet material. 3,186,277, 6-1-65, Cl. 83-355.
- Brunner, Everett A.: See—La Trell, Jack K. 3,178,738.
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- Brunner, Helmut: See—Bommer, Heinrich, and Brunner. 3,164,442.
- Brunner, Jacques J., and W. W. Collins, to FMC Corp. Article sorting system. 3,181,685, 5-4-65, Cl. 198-24.
- Brunner, John E., to Aeronca Mfg. Corp. Missile safety and arming circuit. 3,167,018, 1-26-65, Cl. 102-70.2.
- Brunner, John E., and A. Z. Hallum, to Aeronca Mfg. Corp. Integrated airframe bulkhead and cavity antenna. 3,226,720, 12-28-65, Cl. 343-708.
- Brunner, John J.: See—Mercer, John L., and Brunner. 3,219,021.
- Brunner, Julius: See—Kuhrt, Friedrich, and Brunner. 3,192,471.
- Kuhrt, Friedrich, Maaz, Rainer, and Brunner. 3,226,640.
- Brunner, Julius, to Siemens-Schuckertwerke Aktiengesellschaft. Signal-voltage generating device. 3,185,920, 5-25-65, Cl. 323-94.
- Brunner, Julius, and F. Kuhrt, to Siemens-Schuckertwerke Aktiengesellschaft. Device for measuring torque on shafts. 3,191,434, 6-29-65, Cl. 73-136.

- Brunner, Siegfried: See—Lelmer, Albert, and Brunner. 3,166,651.
- Brunner, Walter H.: See—Bil, Milos Z., and Brunner. 3,168,441.
- Brunner, Walter H., and A. Halasz, to Clair Inc. Compositions and methods of dyeing human hair with nitro-phenylenediamines. 3,168,442, 2-2-65, Cl. 167-88.
- Brunnert, Otto: See—Karmann, Richard, Hoffmann, and Brunnert. 3,222,462.
- Bruno, Anthony T.: See—Speno, Martin J., and Bruno. 3,167,172.
- Bruno, Martin J., and Bruno. 3,209,911.
- Bruno, Joseph P., to OPCO Industries, Inc. Radio controlled motor driven lifting and lowering device. 3,215,912, 11-2-65, Cl. 318-16.
- Bruno, Severino. Process for the regulation of the power of oleo-dynamical plants, and a device for carrying out this process. 3,180,091, 4-27-65, Cl. 60-52.
- Bruns, Edward C., to The Cincinnati Milling Machine Co. Pneumatic measuring circuit. 3,210,987, 10-12-65, Cl. 73-37.6.
- Bruns, Edward C., to The Cincinnati Milling Machine Co. Position analog unit for automatic controls. 3,220,276, 11-30-65, Cl. 74-409.
- Bruns, Frank J., to Sinclair Research, Inc. Liquid dispenser with outer housing. 3,224,646, 12-21-65, Cl. 222-189.
- Bruns, Frank J., and A. H. Eron, to Sinclair Research, Inc. Vapor and solids separator for gasoline. 3,165,469, 1-12-65, Cl. 210-232.
- Bruns, Robert F.: See—Voorhels, Temple S., Hudson, and Bruns. 3,204,610.
- Brunschweiler, Alfred: See—Thompson, Leonard H., and Brunschweiler. 3,217,183.
- Brunschweiler, Alfred, to International Business Machines Corp. Single channel NRZI detection circuit. 3,207,915, 9-12-65, Cl. 307-88.5.
- Brunsing, Rex L., 3% to W. Kleckhefer, and 4% to G. A. and P. A. Coats. Multi-can package and connector for cans. 3,198,326, 8-3-65, Cl. 206-65.
- Brunsing, Rex L., 3% to W. Kleckhefer, and 4% to G. A. and P. A. Coats. Can packaging machine. 3,218,777, 11-23-65, Cl. 53-48.
- Brunson, Bruce W., to Werner Machinery Co. Reciprocating cookie cutter having cushioning means which automatically adjusts the length of tool stroke. 3,178,983, 4-20-65, Cl. 83-530.
- Brunson, Marlon O., and W. D. McGillen, to Eastman Kodak Co. Compositions of polyethylene and ethylene/ethacrylate copolymers for improved heat sealability. 3,201,498, 8-17-65, Cl. 260-897.
- Brunson, Raymond D., P. A. Gilovich, and S. K. Klingman, to Varian Associates. Electrical measuring apparatus. 3,199,112, 9-3-65, Cl. 346-32.
- Brunson, Virgil A., to Dover Corp. System for dispensing liquid having a meter, an air eliminator, and back pressure valve. 3,197,089, 7-27-65, Cl. 222-72.
- Brunson, Virgil A., and H. L. Vanden Hoek, to Blackmer Pump Co. Pump control. 3,183,839, 5-18-65, Cl. 103-21.
- Brunsting, Ralph, deceased (by R. O. Birkhold, executor), and C. M. Casselman, to Ra-Ma Co., Inc. Wall fixture mounting. 3,180,595, 4-27-65, Cl. 248-27.
- Brunsvold, Norris J.: See—Roberts, Charles P., Sommers, and Brunsvold. 3,211,519.
- Brunswick Corp.: See—Alley, Ralph D., and Sheridan. 3,190,290.
- Anderson, Robert I. 3,206,199.
- Bachelder, Millard J., Satchell, and Diamond. 3,202,742.
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- Coleman, Kenneth F. 3,199,155.
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- Rockwood, Albert M., Rogers, and Stevens. 3,216,036.
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- Uecker, Donald F. 3,191,935.
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- Untiedt, Miles E., and Larson. 3,165,316.
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- Wyatt, James B. 3,208,748.
- Brunt, David L. Pneumatically cushioned bumper. 3,203,724, 8-31-65, Cl. 293-89.
- Brunt, Irwin M., and J. M. Shapiro, to United States of America, Navy. Tuning variable capacitor. 3,181,045, 4-27-65, Cl. 317-249.
- Brunton, James L., to Speed Shore Corp. Shoring apparatus. 3,224,201, 12-21-65, Cl. 61-41.
- Brusca, Henry J.: See—Williams, John R., and Brusca. 3,212,526.
- Brusch, Archie F., and J. H. Uphoff. Aircraft landing system. 3,210,029, 10-5-65, Cl. 244-114.
- Bruschweiler, Conrad: See—Renz, Jany, Bourquin, Winkler, Bruschweiler, Ruesch, and Schwarz. 3,221,011.
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- Brush Electrical Engineering Co. Ltd.: See—Davis, Rex M., and Clarke. 3,219,905.
- Brussaard, Jan M., and J. W. Hekkert, to North American Philips Co., Inc. Piezoelectric transducer with longitudinal polarization. 3,175,107, 3-23-65, Cl. 310-9.8.
- Brust, Bernard, R. I. Fryer, and L. H. Sternbach, to Hoffmann-La Roche Inc. Substituted 3-amino 4-phenyl quinolones. 3,202,661, 8-24-65, Cl. 260-288.
- Brust, David P.: See—Minsk, Louis M., and Brust. 3,178,295.
- Minsk, Louis M., and Brust. 3,178,296.
- Brutt, Frederick J., and L. L. Wright, to Westinghouse Electric Corp. Method of making a magnetic core. 3,205,561, 9-14-65, Cl. 29-155.61.
- Brutting, Eugen. Soccer shoe with ball control surface. 3,191,321, 6-29-65, Cl. 36-2.5.
- Bruun, Carroll H.: See—Heth, Arthur M., and Bruun. 3,181,482.
- Bruun, Eugene R., T. A. Flanders, and M. Marcus, to United Aircraft Corp. Intercompartment pressure ratio regulator. 3,185,168, 5-25-65, Cl. 137-98.
- Bruun, Knud I.: See—McMurry, Everett D. 3,175,514.
- McMurry, Everett D. 3,178,018, 4-13-65, Cl. 206-65.
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- Natta, Giulio, Crespi, and Bruzone. 3,198,778.
- Bryan, Alf R., to Monolith Portland Cement Co. Ball mills. 3,173,619, 3-16-65, Cl. 241-153.
- Bryan, Carroll W., to Atlas Metal Works, Inc. Traction means for irrigation pipe transporting device. 3,175,635, 3-30-65, Cl. 180-9.64.
- Bryan, Chester L., and B. P. McDonnell, to Westinghouse Electric Corp. Strip thickness control apparatus. 3,188,842, 6-15-65, Cl. 80-56.
- Bryan, Darrel L., to Pacific Car and Foundry Co. Self-lubricating differential. 3,182,527, 5-11-65, Cl. 74-713.
- Bryan, David G.: See—Allum, Robin D., Mann, Bryan, and Knight. 3,199,083.
- Allum, Robin D., Mann, Bryan, and Knight. 3,199,083.
- Bryan, Eugene D. Fire fighting devices. 3,185,198, 5-25-65, Cl. 150-52.
- Bryan, Harvard J. Dual thrust propeller and controls for rotary winged aircraft. 3,166,129, 1-19-65, Cl. 170-160.25.
- Bryan, Harvard J. Automatic safeties for guns. 3,222,809, 12-14-65, Cl. 42-70.
- Bryan, Howard W., Jr.: See—Chandler, Coy N., Bryan, and Roach. 3,168,959.
- Bryan, James C., and R. D. Hurt, to E. I. du Pont de Nemours and Co. Apparatus for producing composite textile filaments from a plurality of synthetic polymers. 3,200,440, 8-17-65, Cl. 18-8.
- Bryan, James S., and C. F. Teacher, to Philco Corp. Character identification system employing plural resistor-correlation masks. 3,167,745, 1-26-65, Cl. 340-146.3.
- Bryan, James S., and F. P. Kelper, Jr., to Philco Corp. Two-level quantization system. 3,189,685, 6-15-65, Cl. 178-7.1.
- Bryan, Joseph F.: See—Kindle, William K., Bryan, Smidowicz, and Kennedy. 3,218,840.
- Bryan, Joseph F., and C. R. Killian, to Electronic Associates Inc. Function generator. 3,205,349, 9-7-65, Cl. 235-197.
- Bryan, Loren A., and W. A. Tidridge, to FMC Corp. Polyvinyl acetate and acrylic latex paints. 3,215,660, 11-2-65, Cl. 260-29.6.
- Bryan, Paul J., to E. I. du Pont de Nemours, and Co. Explosively actuated hole cutter. 3,169,479, 2-16-65, Cl. 102-24.
- Bryan, Warren P. Method for improving well production and salt water disposal. 3,167,125, 1-26-65, Cl. 166-45.
- Bryan, Wilson J., Jr.: See—Holtzclaw, Charles R., and Bryan. 3,177,256.
- Holtzclaw, Charles R., and Bryan. 3,177,256.
- Bryans, David F., and B. W. Haritonoff, to Carrier Corp. Air conditioning system and method. 3,208,508, 9-28-65, Cl. 165-2.
- Bryant, Albert: See—Canns, Julius D., Bryant, and Lichau. 3,187,628.
- Bryant, Andrew J. Device for holding a rotary cutting tool. 3,190,040, 6-22-65, Cl. 51-225.
- Bryant, Austin U., to Grove Valve and Regulator Co. Valve construction. 3,170,478, 2-23-65, Cl. 137-340.

- Bryant, Austin U., to Grove Valve and Regulator Co. Fluid valve having pressure responsive bonnet seals. 3,173,647, 3-16-65, Cl. 251-172.
- Bryant, Austin U., to Grove Valve and Regulator Co. Balanced seating means. 3,173,649, 3-16-65, Cl. 251-282.
- Bryant, Austin U., to Grove Valve and Regulator Co. Reciprocating valve having a throttling arrangement and particular head and seat cooperation. 3,198,481, 8-3-65, Cl. 251-210.
- Bryant, Austin U., to Grove Valve and Regulator Co. Gate valve body of welded construction. 3,204,929, 9-7-65, Cl. 251-329.
- Bryant, Austin U., and L. K. Edwards, to Grove Valve and Regulator Co. Valve construction method. 3,224,080, 12-21-65, Cl. 29-157.1.
- Bryant, Ben L. Drying assembly. 3,225,912, 12-28-65, Cl. 206-37.
- Bryant, Charles D.: See—
- Rosin, Seymour, and Bryant. 3,178,510.
- Bryant, Charles J., to General Motors Corp. Load bearing connector. 3,226,470, 12-28-65, Cl. 174-79.
- Bryant, Chuckling Grinder Co.: See—
- Barnard, Leon J. 3,167,064.
- Groby, Paul A. 3,192,674.
- Bryant, Clifford A., C. D. Elliott, R. F. Hackney, L. C. La Duke, and O. C. Payne, to Cabin Crafts, Inc. Machine for producing cut and uncut pile fabrics. 3,187,699, 6-8-65, Cl. 112-79.
- Bryant, Donald D. Automatic travelling journal box oiler. 3,203,504, 8-31-65, Cl. 184-2.
- Bryant, Edward T.: See—
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- Bryant Electric Co., The: See—
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- Bryant, Ellis H., Jr., to Audichron Co. Magnetic call totalizer. 3,190,962, 6-22-65, Cl. 179-8.
- Bryant, Irvin E., to The Lufkin Rule Co. Micrometer measuring device having feelers. 3,225,447, 12-28-65, Cl. 33-143.
- Bryant, James G. Hammer mill having a rigid, removable eccentrically disposed screen. 3,196,915, 7-27-65, Cl. 146-79.
- Bryant, Ozro N.: See—
- Conrad, Joseph D., Sr., and Bryant. 3,190,612.
- Bryant, Victor J., and R. L. Archibald. Internal broaching machine. 3,199,409, 8-10-65, Cl. 90-96.
- Bryant, William L., Jr., to R. W. Hodgson. U-bolt bender. 3,172,452, 3-9-65, Cl. 153-46.
- Bryce, Peter C. Storm window washing device. 3,201,816, 8-24-65, Cl. 15-220.
- Brydolf, Robert, and K. K. Kellems, to Acme Appliance Mfg. Co. Jig for assembling pocket door frames. 3,169,249, 2-16-65, Cl. 1-149.
- Brye, Adolph O. Truck wheel wrench apparatus. 3,170,347, 2-23-65, Cl. 81-121.
- Brynko, Carl, and J. A. Scarpelli, to The National Cash Register Co. Making individual capsules by dual deposition (from liquid). 3,190,837, 6-22-65, Cl. 252-316.
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- Brynsvoild, Glen V., and K. Hikido, to United States of America, Atomic Energy Commission. Fuse device for a nuclear reactor. 3,205,149, 9-7-65, Cl. 176-87.
- Brynsvoild, Glen V., and W. A. Sangster, to United States of America, Atomic Energy Commission. Continuous support fuel rod spacer system. 3,212,991, 10-19-65, Cl. 176-78.
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- Brys, Harry E., to Armco Steel Corp. Furnace tensiometer. 3,206,972, 9-21-65, Cl. 73-144.
- Brys, Harry E., to Armco Steel Corp. Automatic gauge and tension control system. 3,212,310, 10-19-65, Cl. 72-12.
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- Burge, Leonard L., to Sinclair Research, Inc. Polymerization method. 3,223,162, 12-14-65, Cl. 166—33.
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- Burke, Earl J., to Sprague Electric Co. Soldering apparatus. 3,172,387, 3-9-65, Cl. 113—127.
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- Burns, Stephen J., and R. B. Howell, to Burns Aero Seat Co., Inc. Track supported mounting device. 3,189,313, 6-15-65, Cl. 248-429.
- Burns, Stuart R.: See—
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- Burns, Thagrus A., and W. H. Phend. Feeding device. 3,200,929, 8-17-65, Cl. 197-130.
- Burns, Vern V. Collapsible storage pouch. 3,165,247, 1-12-65, Cl. 224-29.
- Burns, William E., to International Business Machines Corp. Core-transistor logical device. 3,185,969, 5-25-65, Cl. 340-174.
- Burnside, Charles H., and C. G. Long, to Phillips Petroleum Co. Gel propellants comprising halogen-containing terpolymers. 3,181,982, 5-4-65, Cl. 149-19.
- Burnside, Gilbert L., and G. E. F. Brewer, to Ford Motor Co. Electrophoretic coating process. 3,200,057, 8-10-65, Cl. 204-181.
- Burnside, Gilbert L., and J. W. Mistele, to Ford Motor Co. Atomizing apparatus having a liquid accumulation cavity. 3,224,680, 12-21-65, Cl. 239-223.
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- Burow, Frank H., to Gulf Research & Development Co. Sample preparation and collection means for gas chromatographic columns. 3,225,520, 12-28-65, Cl. 55-67.
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- Burrell, Alfred A. Method of splicing a belt. 3,222,236, 12-7-65, Cl. 150-139.
- Burr, Bessie F. Contact thimble device. 3,191,824, 6-29-65, Cl. 223-101.
- Burr, John W. Rail car switching. 3,207,085, 9-21-65, Cl. 105-26.
- Burr, Myrtice C., to Pure Carbon Co., Inc. Golf club including a striking face of porous carbon. 3,218,072, 11-16-65, Cl. 273-73.
- Burr, Robert P., to Printed Motors, Inc. Electrical printed-circuit winding. 3,171,051, 2-23-65, Cl. 310-268.
- Burr, Robert P., to Circuit Research Co. Pulse-developing control circuit. 3,182,243, 5-4-65, Cl. 318-269.
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- Burrell, Alfred A. Sheaves. 3,186,247, 6-1-65, Cl. 74-230.4.
- Burrell, Alfred A. Belt and splice therefor. 3,186,248, 6-1-65, Cl. 74-233.
- Burrell, Bernard F., to United States Rubber Co. Vibration joints. 3,206,228, 9-14-65, Cl. 285-47.
- Burrell, Frank C., to General Motors Corp. Automotive air mix heater control arrangement. 3,207,439, 9-21-65, Cl. 237-2.
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- Burris, Richard A., to Caterpillar Tractor Co. Vehicle suspension systems. 3,168,302, 2-2-65, Cl. 267-64.
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- Burrows, Dale L., to United States of America, Army. Insulating device. 3,200,750, 8-17-65, Cl. 102-92.5.
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- Burton, Linwood P. Mixing and disintegrating head. 3,170,689, 2-23-65, Cl. 241-46.
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- Burwen, Richard S., to Honeywell Inc. Signal detecting and amplifying circuit utilizing a saturable core. 3,210,689, 10-5-65, Cl. 331-113.
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- Bury, Jack, to Kaywood Corp. Hinge and closure assemblies for windows and the like. 3,183,547, 5-18-65, Cl. 16-129.
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- Burzlaff, Karl H., to Ritter Co., Inc. Apparatus for controlling the flow of fluids. 3,210,043, 10-5-65, Cl. 251-320.

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- Busby, John P., Sr., to Lockheed Aircraft Corp. Heating device. 3,204,083, 8-31-65, Cl. 219-346.
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- Busch, Donald F., to International Business Machines Corp. Regenerative switching circuit. 3,200,382, 8-10-65, Cl. 340-174.
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- Busch, Richard E., to Sperry Rand Corp. Indicator setting mechanism for calculating machine. 3,220,642, 11-30-65, Cl. 235-23.
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- Busch, Siegfried, R. Hatschek, and F. Pischinger, to H. List. Device for adjusting and altering the spatial position of articles. 3,220,720, 11-30-65, Cl. 269-61.
- Busch, Thomas N., to Timberline Equipment Co. Tree harvesting apparatus. 3,198,225, 8-3-65, Cl. 144-3.
- Busch, Thomas N., D. W. Jasper, and B. E. Jasper, to Timberline Equipment Co. Shearing head. 3,196,911, 7-27-65, Cl. 144-34.
- Buschom, Floyd E., to Vandale Corp. Silo unloader drive hub attachment. 3,169,798, 2-16-65, Cl. 301-43.
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- Busche, Robert M., to E. I. du Pont de Nemours and Co. Coloring of polymeric shaped structure surfaces. 3,181,926, 5-4-65, Cl. 8-4.
- Buschers, Herbert H., to Martin-Marletta Corp. Missile release system. 3,186,301, 6-1-65, Cl. 89-1.7.
- Buschman, Francis X., and C. J. Beran, to Tensolite Insulated Wire Co., Inc. Manufacture of polytetrafluoroethylene insulated wires. 3,223,564, 12-14-65, Cl. 156-53.
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- Buschow, Herman F., to Hydrocarbon Research, Inc. Method for casting transition couplings. 3,225,400, 12-28-65, Cl. 22-204.
- Buse, Frederic W., to Ingersoll-Rand Co. Column insert bearing housing. 3,180,696, 4-27-65, Cl. 308-15.
- Busemann, Adolf: See—
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- Buser, Fritz, A.G., Maschinenfabrik: See—
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- Bush, Alphonse: See—
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- Bush, E. S., & Co.: See—
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- Bush, Rankin J., to Westinghouse Air Brake Co. Railway traffic controlling apparatus. 3,211,017, 10-12-65, Cl. 74-472.
- Bush, Raymond W., and F. E. Hilliker. String cutter having reciprocating gripper means to feed strings to the cutter. 3,194,101, 7-13-65, Cl. 83-277.
- Bush, Richard W.: See—
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- Bush, Richard W., R. S. Gregorian, and F. X. Werber, to W. R. Grace & Co. Isocyanate crosslinked polyhydroxylated polyethylene. 3,210,323, 10-5-65, Cl. 260-77.5.
- Bush, Robert G.: See—
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- Bush, Russell J., to The Standard Products Co. Gasket. 3,213,584, 10-26-65, Cl. 22-400.
- Bush, Vannevar, to Stewart-Warner Corp. Hydraulic pump or motor. 3,211,107, 10-12-65, Cl. 103-174.
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- Bushl, Michael. Method of making a split ring. 3,166,827, 1-26-65, Cl. 29-148.4.
- Bushman, Julius H., to The Stanley Works. Strapping tool. 3,211,186, 10-12-65, Cl. 140-93.4.
- Bushnell, David P.: See—
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- Bushnell, Eldon W., to Amsted Industries Inc. Slack adjuster. 3,190,403, 6-22-65, Cl. 188-196.
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- Bushrod, Charles J., and C. J. Hall, to Chloride Batteries Ltd. Method of manufacturing sheath for electric accumulator plates. 3,216,864, 11-9-65, Cl. 136-148.
- Busillo, Eugene P., and H. J. Hampel, to Fischer & Porter Co. Flow rate indicator. 3,164,889, 1-12-65, Cl. 73-209.
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- Buss, Benjamin A., to Ametek, Inc. Laundry machines. 3,165,003, 1-12-65, Cl. 74-230.17.
- Buss, Benjamin A., to Ametek, Inc. Laundry method. 3,203,018, 8-31-65, Cl. 8-158.
- Buss, Waldeen C.: See—
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- Bussard, Adrien, H. Gruber, and H. Stephan, to W. C. Heraeus, G.m.b.H. Method and apparatus for melting metals by inductive heating and electron bombardment. 3,226,223, 12-28-65, Cl. 75-10.
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- Busse, Warren F., to E. I. du Pont de Nemours and Co. Graft polymers with polysulfone grafts and their preparation. 3,170,892, 2-23-65, Cl. 260-859.
- Bussell, Joel G.: See—
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- Bussli, Ennio: See—
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- Butan, Edward. Wrist attached plumb indicator for bowlers. 3,206,200, 9-14-65, Cl. 273-54.
- Butts, Richard A., to Secony Mobil Oil Co., Inc. Lubricant. 3,170,879, 2-23-65, Cl. 252-18.
- Butera, Matteo. Shoe with cavity containing imprint. 3,169,326, 2-16-65, Cl. 36-2.5.
- Butin, Henri, and R. Delesmontey. Device for holding workpieces on a machine-tool table. 3,197,197, 7-27-65, Cl. 269-81.

- Buting, Walter E., to Eli Lilly and Co. Bis- β -(4-arylpiper-azino) ethyl sulfones for treating schistosomiasis. 3,203,858, 8-31-65, Cl. 167-33.
- Butka, John, and A. J. Nelson, to Butkin Tool and Mfg. Corp. Automatic marker buoy. 3,193,854, 7-13-65, Cl. 9-9.
- Butkin Tool and Mfg. Corp.: See—
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- Butler, Alfonso. Means for sealing the edge of a panel to frame means. 3,194,299, 7-13-65, Cl. 160-40.
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- Butler, Carleton L. Snag-proof hook protectors. 3,170,756, 2-23-65, Cl. 43-43.4.
- Butler, Charlie C., and C. O. Kellett, to Loom Products Co., Inc. Jack stick and strap assembly for looms. 3,181,635, 6-29-65, Cl. 139-88.
- Butler, Clay P.: See—
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- Butler Co.: See—
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- Butler, David H., and W. C. Falk, to United States of America, National Aeronautics and Space Administration. Miniature vibration isolator. 3,223,374, 12-14-65, Cl. 248-358.
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- Butler, Frank D. Fluid pressure variable ratio reversible, combined hydrodynamical and multiply compounded planetary gearing driven transmission coupler, adaptable as forming a combined fluid torque converter transmission coupler and rear traction-wheel-housing assembly, of and for an automotive vehicle. 3,221,575, 12-7-65, Cl. 74-730.
- Butler, Graham F., and W. P. Engleheart, to The Nuclear Power Plant Co. Ltd. Nuclear reactors. 3,219,536, 11-23-65, Cl. 176-19.
- Butler, Harold E., to Kenney Mfg. Co. Curtain rod bracket. 3,218,017, 11-16-65, Cl. 248-263.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Spot type disc brakes for vehicles. Re. 25,817, 7-6-65, Cl. 188-73.
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- Butler, James R., to Union Carbide Corp. Iron base alloy. 3,193,383, 7-6-65, Cl. 75-123.
- Butler, James V., to Min-I-Sort. Water softening device. 3,208,595, 9-28-65, Cl. 210-282.
- Butler, James W. Vacuum cold trap. 3,188,785, 6-15-65, Cl. 55-269.
- Butler, Jesse L., to Sanders Associates, Inc. Radar counter-measures antenna system. 3,171,125, 2-23-65, Cl. 343-18.
- Butler, John M., L. A. Miller, and G. L. Wesp, to Monsanto Co. Reaction products of acetylenic diesters and polyols. 3,201,370, 8-17-65, Cl. 260-47.
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- Butler Mfg. Co.: See—
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- Butler, Norman C.: See—
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- Butler, Oscar. Control system for public conveyance vehicles having diesel engines. 3,193,044, 7-6-65, Cl. 180-82.
- Butler, Ralph T. Powered garden tillage implement. 3,166,140, 1-19-65, Cl. 180-19.
- Butler, Richard A., R. H. Cadwallader, J. J. Isola, Jr., and G. Park, to International Business Machines Corp. Automatic programmer. 3,171,114, 2-23-65, Cl. 340-267.
- Butler, Richard A., Jr., and N. T. Pierce, to Pierce assor. to said Butler. Web supply apparatus. 3,184,364, 5-18-65, Cl. 156-504.
- Butler, Robert S. Mining apparatus. 3,207,306, 9-21-65, Cl. 209-11.
- Butler, Robert W., and G. I. Keim, to Hercules Powder Co. Cationic epichlorohydrin modified polyamide reacted with water-soluble polymers. 3,224,986, 12-21-65, Cl. 260-9.
- Butler, Roger M., J. L. Tiedje, and J. A. Richard, to Esso Research and Engineering Co. Treating athabaska sands utilizing a flotation gas. 3,203,888, 8-31-65, Cl. 208-11.
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- Butler, Sammy A., R. J. Sahuika, and H. S. Yourke, to International Business Machines Corp. Normally oscillating circuit with non-oscillating state determined by a conditionable isolated time delay circuit. 3,209,168, 9-28-65, Cl. 307-88.5.
- Butler, Vaughn H., to Scott & Williams, Inc. Knitting machine. 3,221,517, 12-7-65, Cl. 66-57.
- Butler, Vernon A., and C. H. Wade, to Whirlpool Corp. Laundry agent dispensing device. 3,204,831, 9-7-65, Cl. 222-193.
- Butler, Vincent A., to Parker-Hannifin Corp. Shut-off valve assembly having a removable plug. 3,202,166, 8-24-65, Cl. 137-115.
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- Butsch, Richard W., to Faultless Caster Corp. Anti-fouling caster. 3,204,285, 9-7-65, Cl. 16-40.
- Butsch, Richard W., to Faultless Caster Corp. Sanitary caster. 3,213,482, 10-26-65, Cl. 16-21.
- Butsch, Richard W., to Faultless Caster Corp. Caster wheel scraper. 3,214,786, 11-2-65, Cl. 16-41.
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- Butter, George N., to Commercial Solvents Corp. Stabilized formaldehyde solutions. 3,168,573, 12-2-65, Cl. 260-608.
- Butter, George N., to Commercial Solvents Corp. Stabilized formaldehyde solutions. 3,192,268, 6-29-65, Cl. 260-606.
- Butter, George N., to Commercial Solvents Corp. Stabilized formaldehyde solutions. 3,209,035, 9-28-65, Cl. 260-606.
- Butter, George N., to Commercial Solvents Corp. Stabilized formaldehyde solutions. 3,214,475, 10-26-65, Cl. 260-606.
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- Butter, Otto, to G. M. Pfaff, A.G. Stepping mechanism for a measurement marking and inscribing machine. 3,204,744, 9-7-65, Cl. 197-2.
- Butterbaugh, Galen P., and L. C. Galleher, to Salsbury Corp. Compact centrifugal and one-way clutches with internal oil reservoir. 3,176,810, 4-6-65, Cl. 192-48.
- Butterbaugh, Galen P., and E. F. Salsbury, to C. E. Fleming, Jr., and C. R. Anderson, Jr. Power transmission. 3,208,365, 9-28-65, Cl. 74-684.
- Butterfield, David N. Concrete-mixing attachment. 8,211,436, 10-12-65, Cl. 259-178.
- Butterfield, Floyd. Aerial toy. 3,220,142, 11-30-65, Cl. 46-82.
- Butterfield, Lloyd H., 1/2 to J. H. Stewart. Mounting device for pressure gauge. 3,194,077, 7-13-65, Cl. 73-420.
- Butterfield, Michael H., and G. M. Boxall, to The British Iron and Steel Research Assn. Apparatus for temporarily storing elongate material. 3,175,776, 3-30-65, Cl. 242-55.01.
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- Butterfield, Peter, and M. C. Gill, to Acme Industries, Inc. Heating or cooling control system for heat exchangers. 3,166,120, 1-19-65, Cl. 165-26.
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- Butters, William J., and M. F. Girgis. Infant's chair. 3,224,806, 12-21-65, Cl. 297-136.
- Butterworth, Archibald J. Hydraulic rams. 3,185,237, 5-25-65, Cl. 180-1.
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- Butterworth Mfg. Co.: See—
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- Butterworth, Richard, to Armstrong Cork Co. Method of making powdered polycarbonate. 3,214,407, 10-26-65, Cl. 260-47.
- Butterworth, Richard, and J. A. Parker, to Armstrong Cork Co. Unsaturated linear polycarbonate. 3,164,564, 1-5-65, Cl. 260-47.
- Buttery, Kenneth T., to KVP Sutherland Paper Co. Egg carton. 3,173,598, 3-16-65, Cl. 229-28.
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- Buttke, Richard A., to Globe-Union Inc. Apparatus for casting a post strap and welding same to the plates of a battery stack. 3,200,450, 8-17-65, Cl. 22-58.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Platen printing machines. 3,168,039, 2-2-65, Cl. 101-287.

- Buttner, Karl-Heinz, and H. Völler, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of producing pressings to form permanent magnets. 3,189,667, 6-15-65, Cl. 264-24.
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- Zink, Heinrich, John, and Buttner. 3,188,888.
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- Buttrick, George W.: See—
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- Butzin, Allen L.: See—
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- Butzke, Fritz, G. Kraus, F. Hennig, and H. Küstenmacher, to Siemens & Halske Aktiengesellschaft. Apparatus for coding and decoding teleprinter messages. 3,214,518, 10-26-65, Cl. 178-26.
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- Buvelot, John A., to Amsted Industries Inc. Handbrake for rotor brakes. 3,205,979, 9-14-65, Cl. 188-107.
- Buxbaum, Edwin C., to E. I. du Pont de Nemours and Co. Anthraquinone dyes for gasoline. 3,164,449, 1-5-65, Cl. 44-59.
- Buxton, Alan J., R. A. Heine, and R. G. Mannas, to Automatic Electric Laboratories, Inc. Fast-switching arrangement for the transfer of communication channels. 3,204,204, 8-31-65, Cl. 333-1.1.
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- Buya, Adriaan, to Inland Steel Co. Methods of manufacturing threaded closures. 3,221,533, 12-7-65, Cl. 72-379.
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- Buya, George R., and G. H. Nettleton, to General Electric Co. Circuit breaker trip mechanism. 3,185,792, 5-25-65, Cl. 200-116.
- Buyze, Edwin K., and R. H. Vansteenkiste, to The Budd Co. Split housing spot type disk brake. 3,183,999, 5-18-65, Cl. 188-18.
- Buzan, Morris M., to Emerson Electric Co. Light responsive sign. 3,197,902, 8-3-65, Cl. 40-130.
- Buzas, André, to Interco-Fribourg S.A. Therapeutic composition containing acetylglutamic acid salt of dimethylaminoethanol. 3,178,342, 4-13-65, Cl. 167-55.
- Buzawa, Michael J., to Bausch & Lomb Inc. Photographic objective for use in enlarging or reducing devices. 3,190,176, 6-22-65, Cl. 88-57.
- Buzbee, James M. Log periodic monopole array and image ground plane elements alternately connected to plural feed lines. 3,179,943, 4-20-65, Cl. 343-792.5.
- Buzicky, Edmund J., R. E. Johnson, J. R. Hillmanowski, and R. J. Minar, to Whirlpool Corp. Apparatus for dispensing particulate material. Re. 25,814, 6-29-65, Cl. 222-129.
- Buzzanca, Estanislao. Vehicle parking installations. 3,224,605, 12-21-65, Cl. 214-16.1.
- Buzzards Corp.: See—
- Campbell, Walter G., Clark, and Converse. 3,221,556.
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- Byars, Garner B., Sr., L. Johnson, and H. W. King, to Auto Fire Corp. Automatic dump type charcoal lighter. 3,167,040, 1-26-65, Cl. 110-1.
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- Byberg, Jonas J. Feed grinder. 3,189,287, 6-15-65, Cl. 241-276.
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- Byrley, James A., E. L. Doering, and B. B. Geye, to Shell Oil Co. Fractionation with side stripping. 3,210,271, 10-5-65, Cl. 208-355.
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- Cala, Charles F., to Bausch & Lomb Inc. Method of forming fused bifocal lens blanks. 3,185,556, 5-25-65, Cl. 65-39.
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- Canevari, Teresio: deceased, by A. Gianotti, sole heir and legal representative, to Friden, Inc. Calculating machine with control of decimal places. 3,181,786, 5-4-65, Cl. 235-60.15.
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- Carlisle, Willis C., and J. H. McCarrell, to Macco Oil Tool Co., Inc. Fluid-operated gas lift apparatus. 3,194,175, 7-13-65, Cl. 103-232.
- Carliss, Oswald S., to Yale & Towne, Inc. Vacuum system for load handling. 3,219,380, 11-23-65, Cl. 294-64.
- Carlo, Julius R. Produce bagging apparatus. 3,183,643, 5-18-65, Cl. 53-261.
- Carlon, Hugh R., to United States of America, Army. Automatic glower supply. 3,202,870, 8-24-65, Cl. 315-116.
- Carlon, Hugh R., and H. Tannenbaum. Portable infrared detector comprising a filter wheel. 3,194,962, 7-13-65, Cl. 250-43.5.
- Carloni, Mario. Process for the treatment of shaped food paste. 3,172,765, 3-9-65, Cl. 99-85.
- Carls, William. Manifold construction. 3,195,572, 7-20-65, Cl. 137-608.
- Carls, William. Lever operated valve assembly with lost motion connection. 3,193,574, 7-20-65, Cl. 137-625.69.
- Carls, William. Combined air muffler and metering valve with replaceable cartridge. 3,208,551, 9-28-65, Cl. 181-36.
- Carls, William. Two-piece multiple valve manifold. 3,213,883, 10-26-65, Cl. 137-608.
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- Velstrup, Hans J. 3,220,617.
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- Bauer, Myron J., Carlsberg, and Wilson. 3,166,978.
- Carlsen, Howard E. Apparatus for processing strips of roll film. 3,195,437, 7-20-65, Cl. 95-94.
- Carlsen, Carl E. Hand stamps. 3,221,647, 12-7-65, Cl. 101-125.

- Carlson, Kurt. Reversible Marine propulsion system. 3,225,732, 12-28-65, Cl. 115-5.
- Carlson, William R., to Michigan Tool Co. Cutting tool. 3,209,430, 10-5-65, Cl. 29-95.
- Carlsmith, Lawrence A., to Improved Machinery Inc. Continuous upflow digester. 3,206,358, 9-14-65, Cl. 162-237.
- Carlson, Albert M. Apparatus for lifting and vertically separating a plurality of heavy vertically stacked objects. 3,224,781, 12-21-65, Cl. 254-181.
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- Carlson, Judith A., and A. H. 3,177,571.
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- Ahibor, Valter A., and Carlson. 3,220,783.
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- Carlson, Arne E., to E. I. du Pont de Nemours and Co. Method for increasing sugar content of sugar cane. 3,224,865, 12-21-65, Cl. 71-2.6.
- Carlson, Axel S. Ground vase. 3,190,089, 6-22-65, Cl. 47-41.1.
- Carlson, Barber C., and R. C. Hartlein, to The Dow Corning Corp. Use of silanes as concrete additives. 3,190,762, 6-22-65, Cl. 106-90.
- Carlson, Carl M. Air impulse counter. 3,186,311, 6-1-65, Cl. 91-443.
- Carlson, Carl M. Multi-channel valve. 3,189,049, 6-15-65, Cl. 137-625.24.
- Carlson, Carl O., D. B. Congleton, and D. A. Grafton, to The National Cash Register Co. Method and apparatus employing metachromatic material for forming a plurality of individual micro-images. 3,185,026, 5-25-65, Cl. 88-24.
- Carlson, Chesley F. Mask. 3,202,071, 8-24-65, Cl. 95-79.
- Carlson, Chester F., to Xerox Corp. Image forming apparatus and method. 3,182,591, 5-11-65, Cl. 101-426.
- Carlson, Chester F., to Xerox Corp. Xerographic fusing and drying apparatus. 3,199,223, 8-10-65, Cl. 34-155.
- Carlson, David A. Retractable sink with disposable basin. 3,204,770, 9-21-65, Cl. 4-169.
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- Carlson, Elmer A., to Honeywell Inc. Zone temperature control apparatus with shifting authority. 3,206,120, 9-14-65, Cl. 236-68.
- Carlson, Elmer T., to Cutler-Hammer, Inc. Busway. 3,196,294, 7-20-65, Cl. 307-147.
- Carlson, Elmer V., to Industrial Research Products, Inc. Electro-mechanical transducer. 3,177,412, 4-6-65, Cl. 317-173.
- Carlson, Elmer V., and O. E. Pyle, to Industrial Research Products, Inc. Method of making self-supporting coils and mandrel therefor. 3,182,384, 5-11-65, Cl. 29-155.57.
- Carlson, Ernest, and F. H. Burkhardt, to Ex-Cell-O Corp. Boring head and method of using same. 3,169,416, 2-16-65, Cl. 77-58.
- Carlson, Ernest R., to Harvey Hubbell Inc. Electrical wiring device having improved contact-terminal means. 3,173,739, 3-16-65, Cl. 339-210.
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- Carlson, Floyd E., J. B. Prigg, and P. V. Levin, to Air Products and Chemicals, Inc. Mold filling apparatus. 3,212,128, 10-19-65, Cl. 18-4.
- Carlson, Floyd E., J. B. Prigg, and N. E. Swedberg, to Air Products and Chemicals, Inc. Foaming apparatus. 3,215,681, 11-2-65, Cl. 156-443.
- Carlson, Fred O. Closure operator. 3,189,142, 6-15-65, Cl. 189-47.
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- Carlson, George R., to Warwick Electronics Inc. Transistorized deflection system. 3,197,671, 7-27-65, Cl. 315-27.
- Carlson, Gerald J., to General Electric Co. Magnetron having internal conductive material coated area between anode terminals. 3,223,883, 12-14-65, Cl. 315-39.51.
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- Carlson, Gilbert F., to International Telephone and Telegraph Corp. Pressurized hot water heating system having auxiliary pressurizing vessel. 3,202,357, 8-24-65, Cl. 237-8.
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- Carlson, Gustave R., deceased; M. N. Carlson, executrix of said G. R. Carlson. Apparatus for chlorination of toilet disposal. 3,195,149, 7-20-65, Cl. 4-10.
- Carlson, Harold C. and B. Article carrier. 3,207,212, 9-21-65, Cl. 165-80.
- Carlson, Harold V., to The Firestone Tire & Rubber Co. Sealing means for cracked surfaces. 3,223,005, 12-14-65, Cl. 94-17.
- Carlson, Harry R.: See—
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- Curran, Kenneth E., Ver Planck, and Carlson. 3,198,494.
- Carlson, John I., and H. J. Hazelton, to Carlson Tool & Machine Co. Strip brush making machine. 3,178,280, 4-18-65, Cl. 300-2.
- Carlson, John I., Sr., and C. P. Page, to General Electric Co. Material transferring apparatus. 3,179,262, 4-20-65, Cl. 214-1.
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- Carlson, John W., to The Colorado Fuel and Iron Corp. Burner tuyere arrangement for a blast furnace. 3,166,621, 1-19-65, Cl. 266-41.
- Carlson, John W., to Speed-O-Print Business Machines Corp. Sheet dispensing device. 3,174,643, 3-23-65, Cl. 221-41.
- Carlson, John W., to Speed-O-Print Business Machines Corp. Duplicating machines. 3,195,884, 7-20-65, Cl. 271-10.
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- Carlson, Joseph A., and D. A. Massa, to Warwick Electronics Inc. Hinged joined television cabinet that provides for front and rear exposure of components. 3,184,543, 6-18-65, Cl. 178-7.9.
- Carlson, Judith A., and A. H. Adjustable hub cap tool. 3,177,571, 4-13-65, Cl. 29-245.
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- Carlson, Maurice A., and W. R. Wheeler, to Varian Associates. Metal vacuum joint. 3,208,758, 9-28-65, Cl. 277-171.
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- Carlson, Norman G., to Minnesota Mining and Mfg. Co. Cast porous metal. 3,210,168, 10-6-65, Cl. 29-180.
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- Carlson, Richard E. Vent cap for gas heating structure. 3,211,079, 10-12-65, Cl. 98-46.
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- Carlton, Robert H., to Universal Oil Products Co. Retarding corrosion of heat exchangers. 3,189,537, 6-15-65, Cl. 208-47.
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- Carter, Ronald P., W. A. Cowin, and M. C. Hall, to The English Electric Co., Ltd. Electrical protection systems. 3,225,256, 12-21-65, Cl. 317-28.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Label-pressing device for labeling machines. 3,197,354, 7-27-65, Cl. 156-476.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Means for positioning a label relatively to a picker. 3,202,564, 8-24-65, Cl. 156-569.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Hold-down apparatus for labeling machines. 3,215,255, 11-2-65, Cl. 198-165.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Label magazine. 3,215,582, 11-2-65, Cl. 156-564.
- Carter, Sidney T., and J. L. Fedler, to Geo. J. Meyer Mfg. Co. Grip-finger assembly for labeling machines. 3,222,240, 12-7-65, Cl. 156-482.
- Carter, Thomas G., Jr. Positive clutch. 3,220,522, 11-30-65, Cl. 192-67.
- Carter, Uriel F., and A. F. Kolb, to Cutler-Hammer, Inc. Interlocking operating mechanism. 3,196,227, 7-20-65, Cl. 200-50.
- Carter, Valene J.: See—
Hewett, Walter R. 3,225,427.
- Carter-Wallace, Inc.: See—
Ayres, John E. 3,217,938.
- Carter, William A.: See—
Jensen, Otto, and Carter. 3,210,590.
- Carter, William A., to I-T-E Circuit Breaker Co. Gas deflecting plate and operating rod. 3,177,323, 4-6-65, Cl. 200-144.
- Carter, William A., W. C. Keathley, and J. L. Price, to United Aircraft Corp. Method of explosively forming a scarf type joint. 3,197,855, 8-3-65, Cl. 29-470.1.
- Carter, William B.: See—
Acclari, Jerry A., and Carter. 3,218,343.
- Carter, William, Co., The: See—
Morin, Joseph F. 3,168,881.
- Carter, William J., Jr., to The Firewell Co., Inc. Internally cooled gas pump. 3,193,192, 7-6-65, Cl. 230-210.
- Carter, William L., to Sundstrand Corp. Retainer assembly. 3,214,204, 10-26-65, Cl. 287-53.
- Carter, William S.: See—
Cartwright, Cecil L. 3,180,048.
- Carthage Mills Inc.: See—
Seedorf, Ralph F. Re. 25,751.
- Cartier, Philip P.: See—
Spencer, Dana R., and Cartier. 3,214,733.
- Cartmell, James V.: See—
Hsieh, Paul Y., and Cartmell. 3,164,505.
- Cartomatic Corp.: See—
Grant, Harold J. 3,219,205.
- Carton, Jean. Self-balancing servo system with superimposed alternating current for reducing static friction. 3,179,865, 4-20-65, Cl. 318-28.
- Carton, Jean, J. Feytis, and P. Fouquet, to Compagnie Francaise Thomson-Houston. Apparatus for the treatment of plastic materials. 3,195,178, 7-20-65, Cl. 18-2.
- Cartotecnica Poligrafica A. & G. Fratelli Bianchi S.p.A.: See—
Bianchi, Filippo. 3,223,230.
- Cartoux, Henri, and F. Dubroux, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Cast iron protection. 3,197,828, 8-3-65, Cl. 22-218.5.
- Cartwright, Cecil L., 50% to W. S. Carter. Detachable thumb rest for fishing reels. 3,180,048, 4-27-65, Cl. 43-25.
- Cartwright, Frederick D. Control of directional properties of metals and their alloys. 3,192,756, 7-6-65, Cl. 72-167.
- Cartwright, Theodore R.: See—
Voight, Robert H. 3,205,419.
- Cartwright, Victor F., to Trald Corp. Double sideband-suppressed carrier doppler distance measuring system. 3,166,735, 2-2-65, Cl. 343-12.
- Cartwright, Victor F., to The Ralph M. Parsons Co. Proximity measuring system. 3,174,148, 3-16-65, Cl. 343-12.
- Cartwright, Willard E.: See—
Baker, Thomas R., and Cartwright. 3,176,978.
- Carus Chemical Co., Inc.: See—
Carus, Milton B. 3,172,830.
- Carus, Milton B., to Carus Chemical Co., Inc. Removal of impurities and recovery of potassium hydroxide in the production of potassium permanganate. 3,172,830, 3-9-65, Cl. 204-82.

Carusi, Alexander, and R. F. Kolec, to Olympic Screw & Rivet Corp. Blind rivet assembly. 3,194,106, 7-18-65, Cl. 85-72.

Caruso, Gerard P., to Shell Oil Co. Process for preparation of oleophilic clay powder thickened fluids. 3,210,274, 10-5-65, Cl. 252-28.

Caruso, John. Device for reducing air pollution from internal combustion engines. 3,177,650, 4-13-65, Cl. 60-30.

Caruthers, Felix P., to Automated Specialties, Inc. Transducer assembly. 3,218,591, 11-16-65, Cl. 336-131.

Carver Foods Co.: See—

Dunnam, Thomas R. 3,171,365.

Carver, George P., to Ford Motor Co. Bistable control valve. 3,213,162, 11-2-65, Cl. 187-625.44.

Carver, Lawrence M., and H. Levick, to Stelma, Inc. Electronic relay. 3,170,037, 2-16-65, Cl. 178-70.

Carver, Richard N., R. J. Lohr, and J. Smith, to Lous Marx & Co., Inc. Robot toy and mechanism for actuating the same. 3,199,249, 8-10-65, Cl. 46-247.

Carver, Thurman W., to The Boeing Co. Air mass relative motion meter. 3,222,928, 12-14-65, Cl. 73-180.

Carver, William M., and E. W. Sherrard, to State of Nebraska. Concrete pavement sawed joint depth marker. 3,176,405, 4-6-65, Cl. 33-169.

Carwill Enterprises Inc.: See—

Gaska, Cass W. 3,177,959.

Cary, James E., and W. D. Walker, to Sweden Freezer Mfg. Co. Beverage dispensing head. 3,199,738, 8-10-65, Cl. 222-129.2.

Cary, Philip E., to International Harvester Co. Inductor with anti-jam feature. 3,210,510, 10-5-65, Cl. 219-10.43.

Caryotakis, George: See—

Bilant, Charles E., and Caryotakis. 3,210,593.

Casabiancas High Draft Co. Ltd.: See—

Noguera, Joseph. 3,195,633.

Casadio, Silvano, to Instituto de Angell, S.p.A. Aluminum panote. 3,223,720, 12-14-65, Cl. 260-448.

Casagrande, John T. Position plotting device. 3,187,434, 6-8-65, Cl. 33-1.

Casagrande, Norman: See—

Hall, Irvin G., and Casagrande. 3,216,486.

Casale, Charles T., II, to Sperry Rand Corp. Binary counter. 3,180,975, 4-27-65, Cl. 235-92.

Casale, Salvatore A., T. M. Cawthon, Jr., G. G. Joris, and J. R. Tuttle, to Allied Chemical Corp. Olefin polymerization in presence of purified carbon black. 3,179,648, 4-20-65, Cl. 260-94.9.

Casaleggi, Charles J.: See—

Scavuzzo, William J., Walulik, and Casaleggi. 3,224,585.

Casaroli, Eugene A.: See—

Welch, Russell A. Sr. 3,223,827.

Casas, Edmond R., to Ateliers Provencaux de Reparations Navales et Industrielles. Keel-blocks. 3,184,925, 5-25-65, Cl. 61-68.

Casas-Campillo, Carlos, to Syntex Corp. Process for the preparation of 11 α -hydroxy- Δ^4 -3-keto steroids from 11-unsubstituted Δ^4 -3-hydroxy and 3-acetoxy steroids using pellicyde caeruleus var. mazatecorum. 3,190,809, 6-22-65, Cl. 195-51.

Casas-Campillo, Carlos, to Syntex Corp. 11 α -hydroxylation of 6-substituted-11-deoxy steroids with microorganisms of the genus fusarium, liseola section. 3,203,869, 8-31-65, Cl. 195-51.

Casavant, Robert S., to Lockheed Aircraft Corp. Electronic waveform character generator. 3,207,075, 9-21-65, Cl. 346-33.

Cascade Corp.: See—

Faust, Donald M. 3,197,053.

Weinert, Harry F. 3,221,840.

Cascade Humidifiers, Inc.: See—

Ayres, Russell W., and Van Doren. 3,209,744.

Cascade Industries, Inc.: See—

West, Robert E. 3,184,764.

Casclaro, Arthur: See—

Sutherland, John W. 3,179,207.

Casco, Aktiebolaget: See—

Frankson, Jan R. 3,164,648.

Casco Products Corp.: See—

Gurtler, Roman. 3,204,819.

Gurtler, Roman. 3,209,949.

Horwitt, Laurence G., and Krenke. 3,192,343.

Cas-Craft, Inc.: See—

White, John L. 3,184,819.

Case, Benjamin T., to Highway Safety Products Corp. Highway safety guard. 3,210,051, 10-5-65, Cl. 256-13.1.

Case, Bernard: See—

Ming, Donald L., and Case. 3,224,250.

Case, David A., to The Yellow Springs Instrument Co. Conductivity test cell with automatic compensation for sample temperature. 3,170,111, 2-16-65, Cl. 324-30.

Case, Everett N., and J. Podlipnik, to Sinclair Research, Inc. Handling wax-coated articles. 3,177,091, 4-6-65, Cl. 117-113.

Case, Everett N., and R. Koncos, to Sinclair Research, Inc. Fuel containing anti-icing additive. 3,219,424, 11-23-65, Cl. 44-63.

Case, Everett N., S. H. Patinkin, and D. R. Carlson, to Sinclair Research, Inc. Glycerol esters in leaded gasoline. 3,222,146, 12-7-65, Cl. 44-69.

Case, Grover. Holder for injector type razor blades to scrape with. 3,201,867, 8-24-65, Cl. 30-169.

Case Institute of Technology: See—

Mergler, Harry W., and Weston. 3,220,260.

Case, J. I., Co.: See—

Arnold, Bruce C. 3,202,018.

Baker, Donald C., and Budd. 3,169,039.

Baker, Malvern S. 3,196,993.

Bennett, Milton C. 3,224,186.

Carra, Emil F., Jr., and Wenzel. 3,223,176.

Clarke, Evans L. 3,198,261.

Clarke, Evans L., and Martens. 3,174,446.

Evans, Thomas. 3,215,259.

Gawreluk, Demeter. 3,198,107.

Gawreluk, Demeter. 3,203,429.

Hadler, Howard D. 3,220,171.

Lehmann, Harold A. 3,222,866.

Long, Elton B. 3,216,597.

Long, Elton B. 3,220,580.

Manke, Raymond F. 3,178,148.

Miller, Raymond J. 3,188,119.

Miller, Raymond J. 3,222,865.

Pedersen, Carl O., and Maurer. 3,220,581.

Shumaker, John F. 3,197,050.

Skrumme, Robert B. 3,198,106.

Wenning, Maurice H. 3,190,423.

Wenning, Maurice H. 3,204,431.

Wenning, Maurice H. 3,204,764.

Wenzel, Philip D. 3,177,976.

Wenzel, Philip D. 3,219,125.

Wilkinson, Orville L., and Cooke. 3,198,123.

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Wright, Malcolm E. 3,185,221.

Yeske, Laurel R. 3,199,279.

Case, John S., to Anchor Post Products, Inc. Post and rail fence. 3,195,864, 7-20-65, Cl. 256-65.

Case, John S., to Anchor Post Products, Inc. Split anchor shoe for four cornered structure. 3,195,897, 7-20-65, Cl. 189-30.5.

Case, John S., to Anchor Post Products, Inc. Adjustable terminal attachment for fence rails. 3,195,937, 7-20-65, Cl. 287-54.

Case, Leslie C. 4,4'-diisocyanato-3,5-di-lower alkyl-diphenylmethane. 3,180,883, 4-27-65, Cl. 260-453.

Case, Noel L., and W. A. Gilbert, to Louis Marx & Co., Inc. Railway and road toy. 3,179,063, 4-20-65, Cl. 104-149.

Case Plumbing Mfg. Co.: See—

Ducey, James A. 3,172,128.

Case, Ralph T. Anvil providing rivet holding clamp. 3,205,695, 6-14-65, Cl. 72-457.

Case, Robert O., Jr., to North American Aviation, Inc. High resolution scanning radar. 3,178,711, 4-13-65, Cl. 343-16.

Case, Robert O., Jr., R. G. Shelley, and J. M. Page, to North American Aviation, Inc. Position indicating system. 3,177,484, 4-6-65, Cl. 343-7.

Case, Robert O., Jr., and C. H. Child, to North American Aviation, Inc. Monopulse receiver system. 3,185,982, 5-25-65, Cl. 343-16.

Case, Thomas, to International Telephone and Telegraph Corp. Pulse-count control circuit wherein the input is sampled and inhibited upon input exceeding predetermined frequency. 3,187,202, 6-1-65, Cl. 307-88.5.

Casell Lighting Co.: See—

De Gormo, Ralph G. M. 3,192,379.

Casely, Robert E., and D. R. Noel, to Armour and Co. Anti-septic compositions. 3,177,115, 4-6-65, Cl. 167-30.

Casely, Charles L., to Reliable Engineering Co. Dispensing machine for articles. 3,194,430, 7-13-65, Cl. 221-11.

Casely, Charles L., to Reliable Engineering Co. Card vending machine. 3,220,605, 11-30-65, Cl. 221-231.

Casely, Cullen. Man's undergarment. 3,207,155, 9-21-65, Cl. 123-139.

Casely, Cullen. Electromagnetic linear positioning apparatus. 3,218,534, 11-16-65, Cl. 318-135.

Casely, Donald F.: See—

Anderson, William F., and Casely. 3,176,761.

Casely, Edward H.: See—

Mudd, James F., and Casely. 3,203,766.

Casely, Hubert P., to Handi-Smoke, Inc. Cigarette dispensers. 3,197,063, 7-27-65, Cl. 221-195.

Casely, James H., to Minnesota Mining & Mfg. Co. Hand dispenser for adhesive tape. 3,170,613, 2-23-65, Cl. 225-66.

Casely, James H., to Minnesota Mining & Mfg. Co. Method and apparatus for applying easy-opening seal of adhesive tape. 3,221,468, 12-7-65, Cl. 53-14.

Casely, James P.: See—

Ashbridge, G. Harry, Casely, Francois, Lohan, Smith, and Mitchell. 3,218,518.

Casely, James P., to Ex-Cell-O Corp. Recording head holder. 3,218,648, 11-16-65, Cl. 346-74.

Casely, James P., and M. L. Ripley. Transducer head locking means. 3,196,215, 7-20-65, Cl. 179-100.2.

Casely, Robert F., to Arthur D. Little, Inc. Electromagnetic indicator. 3,183,503, 5-11-65, Cl. 340-378.

Casely, Robert T., to General Electric Co. High pressure current limiting device. 3,218,412, 11-16-65, Cl. 200-113.

Casely, Robert T., to General Electric Co. Protective device panel assembly. 3,218,519, 11-16-65, Cl. 317-119.

Casely, Robert T., to General Electric Co. Circuit breaker panel assembly. 3,218,520, 11-16-65, Cl. 317-119.

Casely, Robert W. Spark plug cover. 3,181,523, 5-4-65, Cl. 123-198.

Casely, William D., Jr. Nail clipper with protective guard. 3,189,986, 6-22-65, Cl. 80-28.

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Doundoulakis, George J. 3,204,026.

Cash, Burns A., and R. C. Anderson, to United States of America, Air Force. Support means for resistance furnace. 3,179,731, 4-20-65, Cl. 18-6.

Cash, Carl G.: See—

Bick, Philip C., and Cash. 3,216,883.

Cash, David R., to James Cash Machine Co. Quilting machine. 3,180,293, 4-27-65, Cl. 112-118.

Cash, James, Machine Co.: See—

Cash, David R. 3,180,293.

Cash, James A., Jr. Bedding component manufacturing machine. 3,192,886, 7-6-65, Cl. 112-2.

Cash, Virgil W. Building block with electrical terminal box cast therein. 3,218,578, 10-26-65, Cl. 52-173.

Cashen, William S., and A. Tinkler, to United Kingdom Atomic Energy Authority. Sampling apparatus. 3,169,588, 8-3-65, Cl. 175-51.

Cashin, Colin H., and W. Oldfield, to The Distillers Co. Ltd. Cyclohexanespirohydantoins. 3,213,104, 10-19-65, Cl. 260-309.5.

Cashman, Robert W., to Saginaw Machine and Tool Co. Clamp apparatus. 3,178,789, 4-20-65, Cl. 24-252.

Cashman, Robert W., and A. Wasco, Jr., to Saginaw Machine and Tool Co. Slide assembly. 3,198,588, 8-3-65, Cl. 308-6.

Cashman, Robert W., and A. Wasco, Jr., to Saginaw Machine and Tool Co. Machine tool construction. 3,203,316, 8-31-65, Cl. 90-15.

Cashore, Louis J. Apparatus and method for detecting cord length irregularities in creels. 3,181,354, 6-4-65, Cl. 73-159.

Casillas, Salvador, to El Paso Natural Gas Co. Photo-electric transducer unit. 3,164,011, 1-5-65, Cl. 73-116.

Casimir, Manfred, to Daimler-Benz Aktiengesellschaft. Hydro-pneumatic shock absorber. 3,212,768, 10-19-65, Cl. 267-34.

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Black, Archie S., and Casini. 3,177,120.

Casius Corp. Ltd.: See—

Akerfors, Ingvar. 3,204,815.

Caskey, Walter A.: See—

Starkey, George W., and Caskey. 3,181,721.

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Casper, Stanley E., to Chandler Evans Inc. Process and product of chrome plating nitrided steel. 3,205,153, 9-7-65, Cl. 204-37.

Caspers, James W.: See—

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Caspora, James W., to United States of America, Navy. Sequential data converter. 3,208,747, 9-14-65, Cl. 343-7.

Casperson, Darrell D., to Koppers Co., Inc. Lance carriage mounted pneumatic jack hammer. 3,175,239, 3-30-65, Cl. 15-104.1.

Cass, Lester E. Valve apparatus for tilting outboard motor. 3,186,375, 6-1-65, Cl. 115-41.

Cass, Ralph S., and R. W. Goetz, to Edcliff Instruments, Inc. Fluid pressure transducer. 3,181,368, 5-4-65, Cl. 73-412.

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De France, Henri, and Cassagne. 3,213,191.

Cassani, Francesco, to Societa Accomandita Motori Endoter-mici F. Cassani & C. (S.A.M.E.). Control system for a tool-lifting device for tractors. 3,220,485, 11-30-65, Cl. 172-9.

Cassano, James R., to General Motors Corp. Vehicle speed maintaining control system and method. 3,216,522, 11-9-65, Cl. 180-82.1.

Cassano, James R., and W. E. Fritz, to General Motors Corp. Vehicle road speed control mechanism. 3,195,678, 7-20-65, Cl. 180-82.1.

Casse, Marcel. Machine for pressure dyeing felt blanks and the like. 3,199,752, 8-10-65, Cl. 228-10.

Casse, Marcel. Method and machine for producing a web of textile fibres held together by a binder. 3,201,499, 8-17-65, Cl. 264-121.

Cassel, Calvin D.: See—

Bell, Vincent G., and Cassel. 3,221,653.

Cassel, Harry A.: See—

Malsel, Leon I., and Cassel. 3,178,271.

Cassel, Walter D. Automatic cattle sprayer. 3,173,402, 3-16-65, Cl. 119-157.

Cassella, Albino: See—

Astrove, Edgar, Cassella, and Goldman. 3,199,089.

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Zerweck, Werner, Fleischhauer, and Bender. 3,215,686.

Casselli, Aveo J., to The Singer Co. Locked tufting stitch. 3,225,725, 12-28-65, Cl. 112-410.

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Cassidy, Francis T., Jr., to International Telephone and Telegraph Corp. Start-stop regenerator. 3,188,387, 8-8-65, Cl. 178-70.

Cassidy, Harry E. Zirconium acetate hair treating composition and process of using same. 3,208,910, 9-28-65, Cl. 167-87.

Cassidy, Irwin B. Continuous feed paint roller. 3,193,868, 7-13-65, Cl. 15-553.

Cassidy, John D.: See—

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Cassie, Norman M., and L. C. Hofmann, to Armour and Co. Pressure or vacuum release closure for a container or the like. 3,181,720, 5-4-65, Cl. 215-58.

Cassidy, Paul C., and M. Giella, to Swift & Co. Gel sealant for patent leather. 3,220,962, 11-30-65, Cl. 260-18.

Cassiers, Paul M.: See—

De Haes, Louis M., Cassiers, Rott, Wage, and Willems. 3,186,842.

Cassilly, Robert R.: See—

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Castagna, Michael. Trailer step assembly. 3,207,260, 9-21-65, Cl. 182-108.

Castanet, Alain, and M. Laverne, to Institut Français du Pétrole, des Carburants et Lubrifiants and Compagnie Générale de Géophysique. Vibrator controlling system. 3,208,550, 9-28-65, Cl. 181-5.

Castany Ferré, Jose. Sewing system for producing alternate stitches on both sides of a material. 3,207,107, 9-21-65, Cl. 112-170.

Castedello, William: See—

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Castela, Andre, to Institut Français du Pétrole, des Carburants et Lubrifiants. Gripping clamps for pull-off endless chains. 3,216,639, 11-9-65, Cl. 226-173.

Castellina, Henri F., to International Standard Electric Corp. Electro-dynamic motor operated valve. 3,167,094, 1-26-65, Cl. 137-625.33.

Castellana, Jack P., and R. R. Roberts, to General Motors Corp. Brake control mechanism. 3,166,951, 1-26-65, Cl. 531.

Castellani, Edward, and J. T. Schneider, to Pacific Transportation Lines, Inc. Truck holding device. 3,219,152, 11-23-65, Cl. 188-4.

Castellanos, Leo J., to Esso Production Research Co. Marine structure repair calson. 3,197,968, 8-3-65, Cl. 61-63.

Castelletti, Lewis. Hand operated button sewer. 3,165,080, 1-12-65, Cl. 112-112.

Castelli, Charles, to Johnson & Johnson. Antiseptic dispenser. 3,170,633, 2-23-65, Cl. 239-327.

Castelli, Charles, to Johnson & Johnson. Container with sifter top. 3,194,455, 7-13-65, Cl. 222-545.

Castelli, Charles, to Johnson & Johnson. Dispenser for adhesive tape. 3,199,394, 8-10-65, Cl. 83-578.

Castelli, Dene. Gage element for masonry construction. 3,196,581, 7-27-65, Cl. 50-82.

Castellini, Nello R. System for determining collision courses. 3,179,939, 4-20-65, Cl. 343-112.

Castellion, George A., to American Cyanamid Co. Semiconducting materials. 3,211,517, 10-12-65, Cl. 23-14.

Castellot, Antonio E. Ejector, type pumping apparatus. 3,212,450, 10-19-65, Cl. 102-260.

Castillo, Joe. Method and apparatus for the handling of fish. 3,166,043, 1-19-65, Cl. 119-3.

Casten, Ray J., to Faris Corp. Navigational plotter. 3,196,543, 7-27-65, Cl. 33-75.

Castle, Alfred B., to United States of America, Navy. Mechanical graphic recording omni-directional accelerometer. 3,183,512, 5-11-65, Cl. 348-7.

Castle, Alfred B. Latches. 3,201,161, 8-17-65, Cl. 292-173.

Castle Brass Works (Proprietary) Ltd.: See—

Buhler, Andreas. 3,207,467.

Castle, Leslie J.: See—

Guild, James C., and Castle. 3,183,164.

Castoe, John H. Spring compressor tool. Re. 25,874, 10-5-65, Cl. 254-10.5.

Castoe, John H. Pressure fluid operated bushing inserting and removing press. 3,217,394, 11-16-65, Cl. 29-252.

Castoe, John H. Tool for adjusting vehicle steering knuckle. 3,218,082, 11-16-65, Cl. 254-126.

Caston, Lowell T. Reversible fan. 3,177,949, 4-13-65, Cl. 170-160.43.

Caston, Thomas C. J. Hook rod and line holder combined. 3,199,243, 8-10-65, Cl. 43-26.

Castor, Charles R.: See—

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Castro, Bernard, to Castro Convertible Corp. Protective covering for bedding in a convertible sofa-bed. 3,191,198, 6-29-65, Cl. 5-320.

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Castro, Michael: See—

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Castro, William R., to Burroughs Corp. Utility printed circuit board. 3,217,208, 11-9-65, Cl. 317-101.

Castrol Ltd.: See—

Edwards, Eric D. 3,190,926.

Edwards, Eric D., and Elliott. 3,218,256.

Elliott, John S. 3,173,871.

Elliott, John S., and Edwards. 3,211,651.

Casty, Richard, A. Berger, W. Mosimann, and H. Abel, to Ciba Ltd. Process for dyeing and printing nitrogen-containing fibers. 3,211,514, 10-12-65, Cl. 8-93.

Casty, Richard, H. Abel, A. Maeder, and A. Berger, to Ciba Corp. Process for dyeing wool. 3,218,116, 11-16-65, Cl. 8-54.

Casull, Don C. Flow control valve for drinking containers and the like. 3,184,126, 5-18-65, Cl. 222-487.

Caswell, John R.: See—

Scandale, Vito F., and Caswell. 3,221,224.

Catcycle Co., Inc., The: See—
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Cataldo, John B.: See—
Herrmann, John A., Cataldo, and Davis. 3,213,403.
Kussy, Frank W., Thomas, Cataldo, and Kralik. 3,226,500.
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- Challender, Ronald S., and J. J. Griffiths, to United Kingdom Atomic Energy Authority. Pressure vessel for a nuclear reactor. 3,171,790, 3-2-65, Cl. 17-50.
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- Chambers, Victor S., and L. H. Howland, to United States Rubber Co. Method of making a synthetic rubber latex employing an alkali polyacrylate. 3,184,424, 5-18-65, Cl. 260-29.7.
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- Chambers, Worthly L., and G. R. Wolter, to Sunbeam Corp. Hair drier improvements. 3,168,382, 2-2-65, Cl. 84-99.
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- Champagne, Emory C., to The Berger Brothers Co. Conformational brassiere construction. 3,203,423, 8-31-65, Cl. 128-489.
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- Champlain, Charles L., and J. L. Funke, to PKG Corp. Cartons. 3,214,075, 10-26-65, Cl. 229-16.
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- Chang, Kern K. N., to Radio Corp. of America. Magneto-resistance nonreciprocal signal amplifier. 3,185,937, 5-25-65, Cl. 330-63.
- Chang, Kern K. N., to Radio Corp. of America. Signal translating system. 3,189,828, 6-15-65, Cl. 325-451.
- Chang, Kern K. N., to Radio Corp. of America. Low-noise high-gain stabilized negative conductance diode frequency converter. 3,195,051, 7-13-65, Cl. 325-449.
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- Chang, Wen-Hsuan, and M. Wismer, to Pittsburgh Plate Glass Co. 2,6,7-trioxo-1-phosphabicyclo[2.2.2]octane sulfoxide, and seleno derivatives and process for making same. 3,189,633, 6-15-65, Cl. 260-481.
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- Chantiles, Fred J., and C. W. Reiber; said Reiber assor. to said Chantiles. Control means for vehicle heating system. 3,200,732, 8-17-65, Cl. 98-2.
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- Chapin, Almon J., to The Johnson Furnace Co. Round-to-rectangular heat exchanger. 3,195,623, 7-20-65, Cl. 165-129.
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- Chapman, Aurelius F., to E. I. du Pont de Nemours and Co. Delustering of glossy surfaces by the use of a non-particle containing coating composition. 3,212,920, 10-19-65, Cl. 117-76.
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- Chapman, David D., G. M. Christensen, A. J. Pilgrim, J. A. Stern, and I. Zommers, to The Boeing Co. Transformation of algae to a human nutrient. 3,197,309, 7-27-65, Cl. 99-1.
- Chapman, David D., and R. H. Bogan, to Boeing Airplane Co. Process of disposing of human waste. 3,219,575, 11-23-65, Cl. 210-7.
- Chapman, Donald M., Jr., to The Smith-Gates Corp. Heating mat. 3,209,128, 9-28-65, Cl. 219-528.
- Chapman, Douglas W., to Mallinckrodt Chemical Works, m-(alkanamidoalkanamido)2,4,6-trifluorobenzolc acid compounds. 3,210,412, 10-5-65, Cl. 260-518.
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- Chisholm, Roy D., to General Electric Co. Tamper-proof door latching mechanism. 3,176,485, 4-6-65, Cl. 70-121.
- Chisholm, Roy D., to General Electric Co. Safety interlock system for high temperature oven. 3,214,567, 10-26-65, Cl. 219-413.
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- Chitayat, Anwar K. Fiber optical image enhancement device utilizing polarized synchronous motors. 3,217,588, 11-16-65, Cl. 88-1.
- Chitayat, Anwar K., to Optomechanisms, Inc. Fiber optics image enhancement means with image rotation. 3,217,589, 11-16-65, Cl. 88-1.
- Chitayat, Anwar K., to Optomechanisms, Inc. Interferometric optical angle measuring device. 3,224,323, 12-21-65, Cl. 88-14.
- Chitayat, Anwar K., and W. W. Burnham, to OPTOMECHANISMS, Inc. Film loop control for viewer. 3,204,886, 9-7-65, Cl. 242-55,11.
- Chittis, Wolf. Foundation pile. 3,199,301, 8-10-65, Cl. 61-53,6.
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- Chittum, Joseph F.: See—
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- Souza, Anthony A., Chitwood, and Durden. 3,192,103.
- Chiusoli, Gian P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for transforming chlorocyanobutene into vinylacrylamide, vinylacrylic acid and polymerization products thereof. 3,172,875, 3-9-65, Cl. 260-80,3.
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- Choate, Paul V., to Norris Thermador Corp. Rocket launchers and rear sight therefor. 3,208,347, 9-28-65, Cl. 89-1,7.
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- Choulings, Leslie C., to Automotive Products Co. Ltd. Fluid pressure braking systems. 3,183,671, 5-18-65, Cl. 60-54,5.
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- Christensen, Robert S., and L. C. Pierschinski. Adjustable still construction. 3,191,931, 6-29-65, Cl. 272-70.1.
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- Christiansen, Milton J., deceased, by B. E. Christiansen, to Western Electric Co., Inc. Conveyor mechanism. 3,169,680, 2-16-65, Cl. 198-38.
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- Christianson, Charles, and R. C. Maggio, to United States of America, Navy. Radioactive reference source and method for making the same. 3,217,165, 11-9-65, Cl. 250-106.
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- Clark, Robert L., and E. F. Rogers, to Merck & Co., Inc. Anticoccidial compositions and method of using same. 3,211,613, 10-12-65, Cl. 167-53.1.
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- Clark, Winslow B. M., and W. R. Spark, to Douglas Aircraft Co., Inc. Electronic stethoscope. 3,182,129, 5-4-65, Cl. 179-1.
- Clarke, Adna G., Jr. Vehicle combination turn and deceleration indicator. 3,188,608, 6-8-65, Cl. 340-74.
- Clarke, Allan B., to Philip Morris, Inc. Method of forming a tobacco product of increased wet strength. 3,194,245, 7-13-65, Cl. 131-140.
- Clarke, Alva B., to United States of America, Interior. Edge isolation of photographic imagery. 3,174,857, 3-23-65, Cl. 96-27.
- Clarke, Christopher D.: See—
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- Clarke, Daniel J., to The Stalker Corp. Bladed rotor. 3,183,658, 3-16-65, Cl. 253-39.
- Clarke, David E., to Texas Instruments Inc. Electrical switches with improved mechanical latching and resetting means. 3,210,501, 10-5-65, Cl. 200-116.
- Clarke, Edgar W., and R. E. White, to Villanova University. Sewage treatment process. 3,218,253, 11-16-65, Cl. 210-27.
- Clarke, Evans L., to J. I. Case Co. Implement draft and position control for tractors. 3,198,261, 8-3-65, Cl. 172-9.
- Clarke, Evans L., and W. J. Martens, to J. I. Case Co. Power-rotated soil penetrating tool. 3,174,446, 3-23-65, Cl. 111-7.
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- Clarke, Frank H., Jr., to Schering Corp. Anti-depressant 10-(3-dimethylaminopropyl)-3-azaphenothiazine. 3,196,076, 7-20-65, Cl. 167-65.
- Clarke, Frank W., to Talon Inc. Beard needle closing device. 3,181,670, 5-4-65, Cl. 139-124.
- Clarke, John H. O. Means for prevention of ice damage to boats, piers and the like. 3,170,299, 2-23-65, Cl. 61-1.
- Clarke, John S., to Joseph Lucas (Industries) Ltd. Piston and cylinder construction for internal combustion engine. 3,209,735, 10-5-65, Cl. 128-32.
- Clarke, John S., and S. R. Jackson, to Joseph Lucas (Industries) Ltd. Exhaust gas combustion apparatus. 3,189,416, 6-15-65, Cl. 23-277.
- Clarke, John S., and J. P. Soltan, to Joseph Lucas (Industries) Ltd. Internal combustion engine exhaust afterburner. 3,197,956, 8-3-65, Cl. 60-30.
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- Clarke, John W., to Creative Packaging, Inc. Ornamental carton. 3,217,868, 11-16-65, Cl. 229-22.
- Clarke, Leonard O. Hanger for cylindrical conduits and the like. 3,226,089, 12-28-65, Cl. 248-73.
- Clarke, Ralph E., and S. R. Hawkins, to American Cyanamid Co. Extraction of streptokinase and streptodornase with urea. 3,210,258, 10-5-65, Cl. 195-66.
- Clarke, Raymond W., to North American Philips Co., Inc. Electrical logical circuit. 3,197,657, 7-27-65, Cl. 307-88.5.
- Clarke, Raymond W., and D. Kenningham, to North American Philips Co., Inc. Exclusive-OR circuit utilizing constant current to the emitters of multiple transistors. 3,201,609, 8-17-65, Cl. 307-88.5.
- Clarke, Richard W., and S. A. Sundin, to Sperry Rand Corp. Transducer support and positioning assembly. 3,193,811, 7-6-65, Cl. 340-174.1.
- Clarke, Robert E. Combination wagon. 3,222,078, 12-7-65, Cl. 280-7.17.
- Clarke, Robert L., to Sterling Drug Inc. 2-benzyl-3-hydroxy and lower alkoxy piperidines. 3,178,438, 4-13-65, Cl. 260-294.7.
- Clarke, Robert L., to Sterling Drug Inc. Alpha-aryl or aralkyl furfurylamines. 3,194,818, 7-13-65, Cl. 260-347.7.
- Clarke, Robert L., and J. S. Buck (deceased), by P. G. Buck, executrix, to Sterling Drug Inc. Pyrenylmethyl quaternary ammonium salts. 3,198,794, 8-3-65, Cl. 260-347.
- Clarke, Robert L., and J. S. Buck (deceased), by P. G. Buck, executrix, to Sterling Drug Inc. Ethyl 4-phenyl-1-(1-pyrenylmethyl) piperidine-4-carboxylate. 3,198,802, 8-3-65, Cl. 260-294.3.
- Clarke, Robert L., and J. S. Buck (deceased), by P. G. Buck, executrix, to Sterling Drug Inc. Pyrenyl methyl tertiary amino amines. 3,198,835, 8-3-65, Cl. 260-570.9.
- Clarke, Ronald A. W. Acoustic shield for a tool powered by a gas-operated motor. 3,202,239, 8-24-65, Cl. 181-36.
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- Clarke, Stanley E. Vacuum cleaner for lawns. 3,203,022, 8-31-65, Cl. 15-340.
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- Clarke, Walter W. H. Slug type inertia switch. 3,177,312, 4-6-65, Cl. 200-61.45.
- Clarke, Walter W. H., to Inertia Switch Ltd. Brake testers. 3,184,977, 5-25-65, Cl. 73-492.
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- Clater, John M., to North American Aviation, Inc. Eddy current induction device. 3,225,605, 12-28-65, Cl. 78-503.
- Clattery, Robert E., to Hill-Rockford Co. Automatic assembling or transferring units. 3,225,941, 12-28-65, Cl. 214-1.
- Claude, George. Collapsible display device. 3,184,366, 5-18-65, Cl. 161-14.
- Claunch, Marshall W., to C. P. Henson. Ignition system circuit. 3,219,879, 11-23-65, Cl. 315-218.
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- Claus, Kurt, and F. Polmeier, to Schloemann Aktiengesellschaft. Apparatus for rolling sections from metal powder. 3,186,030, 6-1-65, Cl. 18-9.
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- Clause, John W., to W. J. Ruscoe Co. Light reflector. 3,165,265, 1-12-65, Cl. 240-103.
- Clausen, Elmer B., and H. Guckel, to Sylvania Electric Products Inc. Pulse generator employing cascade connected transistors for switching direct current power sources across output transformers. 3,168,648, 2-2-65, Cl. 307-88.5.
- Clausen, Kenneth E., and K. N. Yeager, to Outboard Marine Corp. Winch. 3,220,701, 11-30-65, Cl. 254-187.
- Clausen, Mads, to Danfoss A/S. Motor compressor with external welding flange. 3,185,257, 6-15-65, Cl. 230-58.
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- Clauser, Milton U., to Thompson Ramo Wooldridge Inc. Superconducting inertial reference system. 3,176,519, 4-6-65, Cl. 73-505.
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- Claussen, William H., to California Research Corp. Two stage hydrocarbon conversion process with hydrocracking in both stages to produce a high octane gasoline. 3,180,818, 4-27-65, Cl. 208-59.
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- Claybourn, Carlton C., to Miehle-Goss-Dexter, Inc. Sheet control and spray collection chamber. 3,167,012, 1-26-65, Cl. 101-416.
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Montesi, Robert P. 3,182,953.
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- Clayton, Robert H., to Westinghouse Electric Corp. Method of obtaining uniform response from a television camera device. 3,179,840, 4-20-65, Cl. 315-10.
- Clayton, William B., to Merrick Medicine Co. Fluid purifying apparatus. 3,174,819, 3-23-65, Cl. 21-26.

- Claywell, Jack W., and S. O. Peterson, to Preway Inc. Dish basket and cup rack structure for a dishwasher. 3,167,183, 1-26-65, Cl. 211-71.
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- Clejan, Deodat, to General American Transportation Corp. Freight transportation systems. 3,168,876, 2-9-65, Cl. 105-368.
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- Clemens, David H., to Rohm & Haas Co. Arylalkylacyl-formamides. 3,164,633, 1-5-65, Cl. 260-558.
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- Clemenson, Frederick C., to The Gillette Co. Safety razor having adjustable blade edge exposure. 3,193,923, 7-13-65, Cl. 30-67.
- Clement, Carl L., to Kauke and Co., Inc. Decimal accumulator and/or self-decoding digital display unit. 3,223,990, 12-14-65, Cl. 340-324.
- Clement, Cecil R., to Phillips Petroleum Co. Well treating process. 3,190,355, 6-22-65, Cl. 168-22.
- Clement, Clyde H., 1/4 each to Milton L. Morrison, Kenneth Morrison, Lawrence D. Nelson, and Harold C. Conard. Display apparatus. 3,200,522, 8-17-65, Cl. 40-77.
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- Clements, Albert, to The Minster Machine Co. Apparatus for loading dies in presses. 3,183,828, 5-18-65, Cl. 100-224.
- Clements, Albert, to Minster Machine Co. Sliding bolster press. 3,212,430, 10-10-65, Cl. 100-35.
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- Clements, Herbert A., to S.S.S. Patents Ltd. Rotary synchronous clutches. 3,197,001, 7-27-65, Cl. 192-67.
- Clements, Herbert A., to S.S.S. Patents Ltd. Synchronous self-shifting clutches. 3,203,526, 8-31-65, Cl. 192-67.
- Clements, Herbert A., and H. Sinclair, to S.S.S. Patents Ltd. Synchro self-shifting clutch with invertible parts. 3,205,987, 9-14-65, Cl. 192-67.
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- Clements, James S., and K. C. Laughlin, to Celanese Corp. of America. Process for treating liquids. 3,173,862, 3-16-65, Cl. 210-20.
- Clements, John A.: See—
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- Clements, John W., Jr. Convertible door or drawer front. 3,169,281, 2-16-65, Cl. 20-15.
- Clements, Louis E., to International Telephone and Telegraph Corp. Contrast control circuit. 3,204,027, 8-31-65, Cl. 178-73.
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- Clements, Ronald B., to T. & T. Vicars Ltd. Feeding mechanisms for biscuit or the like laminar articles. 3,170,559, 2-23-65, Cl. 198-31.
- Clements, Warner W. Remotely controllable lock set. 3,167,942, 2-2-65, Cl. 70-148.
- Clements, William J.: See—
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- Cleminshaw, Douglas R.: See—
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- Clemm, Peter J., to General Electric Co. Method of immersing cube-on-edge oriented silicon-iron in silicon-iron bath followed by annealing to form a cube-on-edge oriented silicon-iron product. 3,188,249, 6-8-65, Cl. 148-112.
- Clemm, Peter J., to General Electric Co. Porous electrode and method of preparing the electrode. 3,215,563, 11-2-65, Cl. 136-86.

- Clemmons, Dewey L., Jr., to United States of America, National Aeronautics and Space Administration. Thermal control of space vehicles. 3,176,933, 4-6-65, Cl. 244-1.
- Clemo, Philip F., J. A. Briggs, W. Wilson, and J. A. Carter, to British Nylon Spinners Ltd. Polymerisation of aqueous solutions of polyamide-forming reactants with adiabatic expansion thereof. 3,185,672, 5-25-65, Cl. 260-78.
- Clemons, Bette J. Surgical clamp. 3,210,816, 10-12-65, Cl. 24-73.
- Clemons, Cecil F.: See—
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- Clendenin, Francis J., Jr., to E. I. du Pont de Nemours and Co. Apparatus for fluid treatment of synthetic filaments. 3,168,296, 2-16-65, Cl. 28-1.
- Clendenin, Francis J., Jr., to E. I. du Pont de Nemours and Co. Yarn transfer drum. 3,217,386, 11-16-65, Cl. 29-117.
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- Clerbols, Lucien C., to Solvay & Cie. Process for the protection of metals against the corrosive action of brines. 3,215,637, 11-2-65, Cl. 252-387.
- Clerc, Georges: See—
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- Clerc, Milton C., to Texas Instruments Inc. Tunnel diode voltage regulator. 3,204,174, 8-31-65, Cl. 323-22.
- Clerc, Milton C., to Texas Instruments Inc. Motor speed controller. 3,214,666, 10-26-65, Cl. 318-317.
- Clerk, Robert C. Driving and control mechanisms for power-operated machine tools. 3,165,979, 1-19-65, Cl. 91-321.
- Clerk, Robert C. Formation of gear teeth on bars or blanks. 3,169,419, 2-16-65, Cl. 80-20.
- Clermon, Louis-Philippe, and F. Bender, to Canadian Patents and Development Ltd. Process for delignification of lignocellulosic materials. 3,218,226, 11-16-65, Cl. 162-72.
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- Simmons, Lawrence C. 3,176,134.
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- Cleveland, Thomas H., to Mobay Chemical Co. Preparation of organic isocyanates. 3,222,386, 12-7-65, Cl. 260-453.
- Cleveland Trencher Co., The: See—
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- Webb, Ernest C. 3,185,477.
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- Johnston, Roy H. 3,212,448.
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- Clevite Harris Products, Inc.: See—
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- Clewes, Anthony B. Electrical contact and edge connector for such contact. 3,172,717, 3-9-65, Cl. 339-176.
- Clewes, Anthony B., to United-Carr, Inc. Edge connectors for printed circuit panels. 3,199,064, 8-3-65, Cl. 339-134.
- Clewes, Anthony B., to United-Carr Inc. Electrical contact strips. 3,212,051, 10-12-65, Cl. 339-198.
- Clifko Mfg. Co.: See—
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- Clifford, Alan F., to Monsanto Co. Processes for preparing melamine. 3,179,664, 4-20-65, Cl. 260-249.7.
- Clifford, Jack. Repair plug for tires. 3,175,599, 3-30-65, Cl. 152-370.
- Clifford, Joseph, to Square D Co. Three-pole circuit breaker for use in a single-phase panelboard for protecting a three-phase load. 3,194,908, 7-13-65, Cl. 200-51.
- Clifford, Joseph, to Square D Co. Two piece handle locking device each with portions interlockable with the other. 3,197,581, 7-27-65, Cl. 200-42.
- Clifford, Joseph, F. Kussy, and H. I. Stanback, to Square D Co. Circuit controlling devices. 3,166,690, 1-19-65, Cl. 317-119.
- Clifford, Peter J., to Massey-Ferguson Inc. Disk harrow. 3,216,509, 11-9-65, Cl. 172-413.
- Clifford, Peter J., and R. J. Notman, to Massey-Ferguson Inc. Earth working tool and implement guide. 3,187,822, 6-8-65, Cl. 172-701.
- Clifford, Peter J., and R. E. Jones, to Massey-Ferguson Inc. Disc harrow. 3,223,178, 12-14-65, Cl. 172-582.
- Clifford, Warren E., L. A. McClaine, J. H. B. George, and C. E. O'Neill, to The International Nickel Co., Inc. Removal of metal contaminants from nickel-containing process solutions. 3,194,652, 7-13-65, Cl. 75-119.
- Clift, Mortimer A., and C. Snyder, deceased; J. F. Snyder, and E. G. Hicks, administrators. Apparatus for transporting sewage and waste liquids. 3,211,167, 10-12-65, Cl. 137-236.
- Cliftex Clothing Co., Inc.: See—
Nicolaci, Domenick. 3,223,432.
- Clifton, James B. M., to The Bendix Corp. Transistor switching device utilizing transient voltage reduction means. 3,206,613, 9-14-65, Cl. 307-88.5.
- Clifton, James B. McC., to The Bendix Corp. Circuit for varying the drive of an amplifier in accordance with power output demand. 3,209,275, 9-28-65, Cl. 330-22.
- Clifton, James B. M., to The Bendix Corp. Switching circuit arrangement. 3,221,187, 11-30-65, Cl. 307-88.5.

- Climalene Co., The: *See*—
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- Climent, Francis J., and E. M. Corbin, to Aerojet-General Corp. High temperature gas nozzle for rocket motor. 3,200,585, 8-17-65, Cl. 60-35.6.
- Clin, Bernard, to Compagnie de Saint-Gobain. Glass cutting apparatus. 3,198,044, 8-3-65, Cl. 83-10.
- Clin, Roland J. H., and R. C. E. Charlet. Subscribers' telephone equipment. 3,187,108, 6-1-65, Cl. 179-84.
- Clinch, Richard T.: *See*—
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- Cline, Carl A., and L. D. Trapnell, to Continental Oil Co. Method for initiating in situ combustion with pyrophoric materials. 3,179,169, 4-20-65, Cl. 166-38.
- Cline, Edward T., to E. I. du Pont de Nemours and Co. Copolymers of formaldehyde with active hydrogen-containing polymers. 3,218,295, 11-16-65, Cl. 260-67.
- Cline, Edwin L.: *See*—
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- Cline, Edwin L., to Clayton Mfg. Co. Brake for chassis dynamometers. 3,182,758, 5-11-65, Cl. 188-77.
- Cline, Frederick B.: *See*—
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 Burgin, Kermit H. 3,209,913.
- Cline, Marilyn C.: *See*—
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- Cline, Nathan R. Self-tightening pen means. 3,221,361, 12-7-65, Cl. 15-563.
- Cline, Oliver I., Jr., to Devoe & Reynolds Co., Inc. Water resistant carboxy-epoxy aqueous coating compositions. Re. 25,880, 10-12-65, Cl. 260-29.6.
- Cline, Orville. Flying space ship toy. 3,204,891, 9-7-65, Cl. 244-23.
- Cline, Robert L.: *See*—
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- Cline, Virgil P. Combination snubber and pump. 3,215,084, 11-2-65, Cl. 103-148.
- Cline, Warren K., to Olin Mathieson Chemical Corp. Polyethylene oxalate process. 3,197,445, 7-27-65, Cl. 280-78.4.
- Cline, William H., Jr.: *See*—
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- Cline, William M., and W. G. Clemons, to Aeroquip Corp. Segmental hose fitting. 3,167,334, 1-26-65, Cl. 285-243.
- Clinehens, Richard M., and D. A. Meier, to The National Cash Register Co. Magnetic device and apparatus and procedure for making the same. 3,197,749, 7-27-65, Cl. 340-174.
- Clingman, Walter L. Gas lift plunger. 3,181,470, 5-4-65, Cl. 103-52.
- Clink, George E., to The Sandy Hill Iron & Brass Works. Paper making machine. 3,205,126, 9-7-65, Cl. 162-317.
- Clinomobil-Werk Gesellschaft mit beschränkter Haftung: *See*—
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- Clinton, Henry H. Circular multiple contact indexing switch apparatus. 3,198,921, 8-3-65, Cl. 200-153.
- Clinton Industries, Inc.: *See*—
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- Clinton, Raymond O., and A. J. Manson, to Sterling Drug Inc. Reduced maleimide adducts of α -phellandrene. 3,184,456, 5-18-65, Cl. 260-247.5.
- Clipner, George R. Bag construction. 3,173,602, 3-16-65, Cl. 229-59.
- Clippinger, Everett, and R. G. McKee, to California Research Corp. Production of alkyl sulfonates. 3,168,555, 2-2-65, Cl. 260-513.
- Clochesy, Ralph E. Surface projectile rocket game. 3,181,866, 5-4-65, Cl. 273-126.
- Clock, Charles L. Method of and device for semidividing bakery goods. 3,192,976, 7-6-65, Cl. 146-241.
- Clock, Donald P., to Radio Corp. of America. Transponder decoder. 3,178,706, 4-13-65, Cl. 343-6.8.
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- Clock, Gerald E., H. R. Bailey, and S. F. Roth, to The Dow Chemical Co. Chlorinated linear, macromolecular ethylene polymer coating compositions, their use and coated products thereof. 3,165,493, 1-12-65, Cl. 260-33.6.
- Clock, Philip T., K. H. White, and M. J. Green, to Fenwick Products Inc. Sectional fly casting rod. 3,186,122, 6-1-65, Cl. 43-18.
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- Cloos, Frederick R.: *See*—
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- Clopap Corp.: *See*—
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- Clos, Rene J., to International Oil Burner Co. Raceway-type stud insert shield for electrical conductors, and the like. 3,211,825, 10-12-65, Cl. 174-48.
- Close, Egbert B., and J. A. Patenaude, to C & P Phonoproductions Inc. Display board. 3,204,356, 9-7-65, Cl. 40-10.
- Close, Myron J., and J. V. Vold, to United States Rubber Co. Semiautomatic liner inserting machine and method. 3,192,087, 6-29-65, Cl. 156-126.
- Close, Ross A. Action for automatic firearms and machine guns. 3,198,077, 8-3-65, Cl. 89-174.
- Closmann, Philip J., C. S. Matthews, and T. M. Doscher, to Shell Oil Co. Recovery of viscous petroleum materials. 3,221,813, 12-7-65, Cl. 166-11.
- Closner, John J., to The Preload Co. Prestressed concrete structures. 3,217,451, 11-16-65, Cl. 52-224.
- Closson, Addison W., Jr., to Beckwith-Arden Inc. Partially vulcanized upper stiffening blank. 3,173,825, 3-16-65, Cl. 161-156.
- Closson, Henry T., to S-F-D Laboratories, Inc. Broadband cavity parametric amplifier with tuning. 3,169,226, 2-9-65, Cl. 330-4.9.
- Closson, Henry T., to S-F-D Laboratories, Inc. Diode-cavity parametric amplifier. 3,169,227, 2-9-65, Cl. 330-4.9.
- Closson, Rex D.: *See*—
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- Cloud, Charles E., to Cloud Machine Corp. Packaging method and apparatus. 3,218,776, 11-23-65, Cl. 53-30.
- Cloud, Harold A. Self-regulatory flower pot. 3,192,665, 7-6-65, Cl. 47-38.1.
- Cloud, Ivan F., Jr., to Whitaker Cable Corp. Protective and latching clip for wiring harness. 3,211,828, 10-12-65, Cl. 174-72.
- Cloud, Ivan F., Jr., to Whitaker Cable Corp. Spark plug boot having high frequency electrical discharge suppression means therein. 3,212,044, 10-12-65, Cl. 338-66.
- Cloud Machine Corp.: *See*—
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- Clough, George F. G.: *See*—
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- Clouser, Robert W. Doppler radar antenna system. 3,181,151, 4-27-65, Cl. 343-8.
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- Cloutier, Alfred J. Device for turning male ends on pipe. 3,171,309, 3-2-65, Cl. 82-4.
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- Clover, Franklin R., Jr., and M. C. Gott, to Martin-Marletta Corp. Holding or clamping apparatus. 3,207,503, 9-21-65, Cl. 269-21.
- Clow, Ernest G. D.: *See*—
 Shepherd, George R., and Clow. 3,174,018.
- Clow, Hugh, to Electric & Musical Industries Ltd. Magnetic storage devices. 3,210,742, 10-5-65, Cl. 340-174.
- Clow, James B., & Sons, Inc.: *See*—
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- Clowes, Maxwell B., and J. R. Parks, to International Business Machines Corp. Character recognition systems employing autocorrelation. 3,196,395, 7-20-65, Cl. 340-146.3.
- Clowers, Richard W. Crawler-track automotive vehicle. 3,219,133, 11-23-65, Cl. 180-6.7.
- Cloyd, Harold S.: *See*—
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- Cloyd, Howard E., to Webster Electric Co. Plural central and remote station signally and intercommunication system. 3,215,998, 11-2-65, Cl. 340-286.
- Clune, James P.: *See*—
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- Clune, Richard R., and R. M. Goodman, to P. R. Mallory & Co., Inc. Alkaline dry cell for medium low temperature operation. 3,205,097, 9-7-65, Cl. 136-102.
- Clune, Thomas M.: *See*—
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- Clunis, Kenneth, to Minnesota Mining and Mfg. Co. Two track reproducing system with two recorded levels utilizing a variable impedance element. 3,218,620, 11-16-65, Cl. 340-174.1.
- Clupak, Inc.: *See*—
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- Clute, Francis H., to Francis H. Clute & Son, Inc. Grain drying and conveying apparatus for combines and the like. 3,166,384, 1-19-65, Cl. 34-57.
- Clute, Francis H. Helicoid fan. 3,198,423, 8-3-65, Cl. 230-121.
- Clute, Francis H., & Son, Inc.: *See*—
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- Clutter, Carl E.: *See*—
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- Clyatt, Glen W. Truck top carrier. 3,224,805, 12-21-65, Cl. 296-10.
- Clymer, Gerald K., to Philco Corp. Method of forming ohmic bonds to a germanium-coated silicon body with eutectic alloy forming materials. 3,200,490, 8-17-65, Cl. 29-473.1.
- Clymer, Joseph D.: *See*—
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- Clynch, Frank, to Continental Oil Co. Suspension and isolation system for seismic shear wave transducers. 3,205,971, 9-14-65, Cl. 181-5.
- Clyne, Joseph N. Multiple sanding and polishing machine. 3,178,860, 4-20-65, Cl. 51-138.
- Clynes, Manfred E., to Technical Measurement Corp. Switching type amplifier for both A.C. and D.C. signals. 3,168,703, 2-2-65, Cl. 330-10.
- Clynes, Manfred E., to Technical Measurement Corp. Information transfer systems. 3,168,721, 2-2-65, Cl. 340-167.

- Clynes, Manfred E., to Technical Measurement Corp. Telemetering system. 3,210,747, 10-5-65, Cl. 340-206.
- Coach and Car Equipment Corp.: See—
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- Coad, Brian C., to Texas Instruments Inc. Low-melting point materials and method of their manufacture. 3,181,935, 5-4-65, Cl. 29-183.5.
- Coad, Brian C., to Texas Instruments Inc. Composite refractory articles. 3,215,512, 11-2-65, Cl. 29-191.
- Coakley, James L.: See—
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- Coakley, James L., and H. A. Hug, to American Brake Shoe Co. Friction drive apparatus. 3,195,365, 7-20-65, Cl. 74-388.
- Coal Industry (Patents) Ltd.: See—
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Dawson, Gordon B., and Mills. 3,165,361.
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Glover, Harold G., Hunt, and Kenyon. 3,218,252.
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- Coan Mfg. Co., Inc.: See—
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- Coan, Richard L., to Cerro Corp. Die holder having universal movement. 3,213,663, 10-26-65, Cl. 72-285.
- Coanda, George, and B. D. Folkman, to Don Baxter, Inc. Parenteral solution container. 3,215,299, 11-2-65, Cl. 215-100.
- Coast Mfg. and Supply Co.: See—
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- Coast Metals, Inc.: See—
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- Coast Proseal & Mfg. Co.: See—
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- Coatalen, Louis, to D.B.A. (Ducellier-Bendix-Air Equipment). Spot type disc brakes. 3,220,512, 11-30-65, Cl. 188-73.
- Coate, William C. E., to The Lodge & Shipley Co. Multiple tool lathes. 3,186,085, 6-1-65, Cl. 29-568.
- Coate, William C. E., to The Lodge & Shipley Co. Tool changer for lathe tool holder. 3,186,266, 6-1-65, Cl. 82-1.
- Coates Bros. & Co. Ltd.: See—
Tawn, Alec R. H., and Wilson. 3,178,302.
- Coates, Herbert W., and R. A. Frate, to Celanese Corp. of America. Textile material and method for making same. 3,180,782, 4-27-65, Cl. 161-73.
- Coates, J. Edwin, to Douglas Aircraft Co., Inc. Pneumatic loadlifting and translating means. 3,185,238, 5-25-65, Cl. 180-7.
- Coates, J. Edwin, to Alta Engineering Co. Storage and mixing cartridge. 3,195,778, 7-20-65, Cl. 222-80.
- Coates, James K.: See—
Adams, Harold A., and Coates. 3,181,833.
- Coates, James M. Method of forming rigid panels and rigid panel products. 3,197,352, 7-27-65, Cl. 156-242.
- Coates, John W., to The Forgrove Machinery Co. Ltd. Wrapping machines. 3,212,230, 10-19-65, Cl. 53-228.
- Coats & Clark Inc.: See—
Kidd, William E., Jr. 3,184,057.
Morin, Louis H. 3,178,772.
Morin, Louis H. 3,187,074.
Morin, Louis H. 3,205,646.
- Coats Co., Inc.: See—
Foster, James R. 3,180,392.
Foster, James R. 3,212,552.
Tabordon, Royal C. 3,165,142.
- Coats, Darrel W. Combination cigarette package and lighter. 3,178,016, 4-13-65, Cl. 206-41.4.
- Coats, Gordon A.: See—
Brunsing, Rex L. 3,198,326.
Brunsing, Rex L. 3,218,777.
- Coats, John N. Digester cap assembly (swing cap). 3,195,761, 7-20-65, Cl. 220-36.
- Coats, John N. Stock consistency blending apparatus. 3,195,866, 7-20-65, Cl. 259-7.
- Coats, John N. Swivel pipe joint. 3,201,152, 8-17-65, Cl. 285-231.
- Coats, John N. Pipe coupling having clamping force adjusting means. 3,201,156, 8-17-65, Cl. 285-365.
- Coats, Patricia A.: See—
Brunsing, Rex L. 3,198,326.
- Coats, Patricia A.: See—
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- Coats, Raymond E., R. W. Phillips, and R. V. Jones, to Noble Mfg. Co. Drive for auger elevator. 3,189,168, 6-15-65, Cl. 198-213.
- Coats, Robert, and M. L. Ryall, to Pametrada. Steam turbine machinery. 3,165,897, 1-19-65, Cl. 60-102.
- Co-Bar Enterprises, Inc.: See—
Craig, Burnie M. 3,175,420.
- Cobaugh, Robert F., to AMP Inc. Apparatus for making electrical connections. 3,186,072, 6-1-65, Cl. 29-203.
- Cobaugh, Robert F., to AMP Inc. Apparatus for making electrical connections. 3,186,074, 6-1-65, Cl. 29-203.
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- Cobaugh, Robert F., and R. A. Long, to AMP Inc. Tool for making electrical connections. 3,186,073, 6-1-65, Cl. 29-203.
- Cobb, Clifton A., E. E. Wiessner, and J. T. Williams, to Whirlpool Corp. Clothes washing machine with means for controlling duration of extracting cycle. 3,184,932, 5-25-65, Cl. 68-12.
- Cobb, Clifton A., and J. T. Williams, to Whirlpool Corp. Drier having flow rate-responsive control means. 3,186,106, 6-1-65, Cl. 34-45.
- Cobb, Clyde A.: See—
Gouran, Mark F., Cobb, and Kazan. 3,194,942.
- Cobb, David A., to International Harvester Co. Method of assembling a heat exchanger rotor. 3,213,526, 10-26-65, Cl. 29-157.3.
- Cobb, Finch B., L. L. Leach, Jr., and J. A. Snyder, to Esso Research and Engineering Co. Penetrating oil. 3,180,829, 4-27-65, Cl. 252-33.3.
- Cobb, Gordon E., to Messrs. Blackstone & Co. Ltd. Plural motor load responsive sequential starting circuit. 3,205,420, 9-7-65, Cl. 318-99.
- Cobb, Horace H. Washing machine. 3,195,327, 7-20-65, Cl. 68-12.
- Cobb, James E., to The Dow Chemical Co. Purification of ethylenimines by azeotropic distillation. 3,179,655, 4-20-65, Cl. 260-239.
- Cobb, James S., Jr., to E. I. du Pont de Nemours and Co. Spinneret distribution plate. 3,225,383, 12-28-65, Cl. 18-8.
- Cobb, Jess A., to Chicago Show Printing Co. Pole sign. 3,217,437, 11-16-65, Cl. 40-125.
- Cobb, John F.: See—
Stone, Ralph D., and Cobb. Re. 25,868.
- Cobb, Phara L., Jr., and M. R. Hargrave, to Eastman Kodak Co. Method and apparatus for forming continuous filament filter rods. 3,189,506, 6-15-65, Cl. 156-296.
- Cobb, Raymond L.: See—
Turk, Stanley D., and Cobb. 3,215,727.
- Cobb, Raymond L., to Phillips Petroleum Co. Method of potting and bonding. 3,213,173, 10-19-65, Cl. 264-272.
- Cobbett, Leonard C., to Albert & J. M. Anderson Mfg. Co. High pressure contact switch with rotatable locking means. 3,183,335, 5-11-65, Cl. 200-170.
- Cobbedick, David S., to A. E. Staley Mfg. Co. Bonded multi-layer structures. 3,219,516, 11-23-65, Cl. 161-190.
- Cobbs, Ansalem O. Vehicle registration holder. 3,213,556, 10-26-65, Cl. 40-10.
- Cobel, George B., and W. R. Fronk, to The Dow Chemical Co. Process of producing high purity arsenic trichloride from a slurry of As₂O₃. 3,194,631, 7-13-65, Cl. 23-98.
- Cober-Fabbrica Articoli Sportivi: See—
Minisini, Dino. 3,179,434.
- Coberly, Clarence J., to Kobe, Inc. Apparatus for simultaneously running multiple tubing strings. 3,185,517, 5-25-65, Cl. 294-87.
- Coberly, Clarence J., to Kobe, Inc. Fluid operated pump with removable engine valve. 3,212,445, 10-19-65, Cl. 103-46.
- Coberly, Clarence J., and V. Kogut, to Kobe, Inc. U-tube well completion and method. 3,172,469, 3-9-65, Cl. 166-28.
- Coberly, Clarence J., F. B. Brown, and C. P. Williams, to Kobe, Inc. High speed triplex pump. 3,194,174, 7-13-65, Cl. 103-204.
- Cobey, Milton C., to The President and Directors of Georgetown University. Method for adhesively securing together skin and other soft tissue and bone. 3,223,083, 12-14-65, Cl. 128-92.
- Cobine, James D., to General Electric Co. Movable shield structure for vacuum gap devices. 3,167,629, 1-26-65, Cl. 200-144.
- Cobine, James D., to General Electric Co. Gas generating electric discharge device. 3,188,514, 6-8-65, Cl. 313-174.
- Coburn, Robert S., to Joy Mfg. Co. Blasthole drill. 3,181,630, 5-4-65, Cl. 175-85.
- Coby, David: See—
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- Coca-Cola Bottling Works Co. The: See—
Radcliffe, George E. 3,219,236.
- Coca-Cola Co. The: See—
Cherry, James M. 3,179,133.
Cherry, James M. 3,208,315.
- Cocca, Theodore F., to Raytheon Co. Method of fusing material and the like. 3,192,081, 6-29-65, Cl. 148-177.
- Cocca, Ubort: See—
Baron, Paul L., Cocca, and Hamaker. 3,207,635.
- Cocchiaraley, Frank P., and W. Joseph, to Metro-Goldwyn-Mayer, Inc. Surface cleaning apparatus. 3,213,472, 10-26-65, Cl. 15-77.

- Cocchiarella, Thomas A. Hermetically sealable container lid. 3,164,289, 1-5-65, Cl. 220-93.
- Cochran, Chudleigh B.: See—
Brown, Cicero C., and Cochran. 3,166,127.
- Cochran, Chudleigh B., to C. C. Brown. Hydraulically set, releasable well packer. 3,171,492, 3-2-65, Cl. 166-187.
- Cochran, Chudleigh B., to C. C. Brown. Hydraulically-actuated well packers. 3,191,682, 6-29-65, Cl. 166-120.
- Cochran, Chudleigh B., to C. C. Brown. Hydraulic packer with safety joint release. 3,224,508, 12-21-65, Cl. 166-120.
- Cochran, Chudleigh B., and J. B. Davis, to C. C. Brown. Hydrostatic pressure set well packer. 3,180,419, 4-27-65, Cl. 166-120.
- Cochran, Chudleigh B., J. D. Mott, and J. E. Edwards, Jr., to Brown Oil Tools, Inc. Automatic blow-out preventor means. 3,207,221, 9-21-65, Cl. 166-85.
- Cochran, Clyde D., to U.S. Industries, Inc. Pulsator for a milking machine. 3,183,920, 5-18-65, Cl. 137-105.
- Cochran, David S., to Hewlett-Packard Co. Voltage comparator. 3,168,702, 2-2-65, Cl. 328-150.
- Cochran, David S., to Hewlett-Packard Co. Impedance to voltage converter including a positive feedback path for supplying impedance testing current. 3,225,298, 12-21-65, Cl. 324-62.
- Cochran, Donald J., to Ampex Corp. Servo error detector. 3,225,218, 12-21-65, Cl. 307-88.5.
- Cochran, Edward L., to United States of America, Navy. Cavity resonators. 3,205,432, 9-7-65, Cl. 324-5.
- Cochran Equipment Co.: See—
Bradshaw, Harold G. 3,170,704.
Carder, Victor H. 3,220,698.
Herrmann, Thomas R. 3,164,274.
McCartney, Duane N., and Carder. 3,220,585.
- Cochran, James E., Jr., G. B. Kline, Q. F. Soper, and W. N. Cannon, to Eli Lilly and Co. Halogen substituted ethyl and vinyl pyridines. 3,180,872, 4-27-65, Cl. 260-290.
- Cochran, James J., to Harris-Intertype Corp. Clamp control apparatus. 3,182,542, 5-11-65, Cl. 83-453.
- Cochran, Joe F., to General Dynamics Corp. (Convair Division). Method and apparatus for fabricating composite structures. 3,168,782, 2-9-65, Cl. 29-471.1.
- Cochran, John R.: See—
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- Cochran, John T., H. D. Ongman, and H. E. Weber, to General Electric Co. Axial flow vapor-liquid separator. 3,216,182, 11-9-65, Cl. 55-336.
- Cochran, Leslie L., W. Weigler, J. C. Nelson, and H. L. Ridout, to Sperry Rand Corp. Fast multiply system. 3,192,366, 6-29-65, Cl. 235-164.
- Cochran, Richard L.: See—
Engel, William N., Cochran, and Humphrey. 3,192,715.
- Cochran, Richard L., to The Buehler Corp. Jet boat nozzle. 3,214,903, 11-2-65, Cl. 60-35.5.
- Cochran, Richard L., to The Buehler Corp. Jet boat reversing device. 3,220,182, 11-30-65, Cl. 60-35.54.
- Cochran, Richard L., to The Buehler Corp. Jet boat reverse movement arrangement. 3,226,033, 12-28-65, Cl. 239-265.27.
- Cochran, Teddy L. Safety binder release tool. 3,179,373, 4-20-65, Cl. 254-78.
- Cochran, Thomas L., to American Oil Filter Co., Inc. Panel wall louvers. 3,181,661, 5-4-65, Cl. 189-54.
- Cochrane Furniture Co., Inc.: See—
Cochrane, Jerry W., and Costner. 3,189,065.
- Cochrane, Harry W., to International Business Machines Corp. Core matrix coded decimal parallel adder utilizing propagated carries. 3,166,669, 1-19-65, Cl. 235-175.
- Cochrane, James R.: See—
Jepson, Ivar, Cochrane, and Grahn. 3,189,727.
- Cochrane, Jerry W., and R. H. Costner, to Cochrane Furniture Co., Inc. Multiple drilling apparatus. 3,189,065, 6-15-65, Cl. 144-112.
- Cochrane, Reuel A. Rock lock type fifth wheel locking mechanism. 3,194,585, 7-13-65, Cl. 280-437.
- Cochrane, Richard H., to Phillips Petroleum Co. Package making device. 3,195,289, 7-20-65, Cl. 53-182.
- Cochrane, Richard H., to Phillips Petroleum Co. Combined bagging and packaging machine. 3,209,513, 10-5-65, Cl. 53-182.
- Cochrane, Richard H., to Phillips Petroleum Co. Garment bag forming machine. 3,210,909, 10-12-65, Cl. 53-256.
- Cochrane, Thomas: See—
Barlow, George E., and Cochrane. 3,211,893.
- Cochrane, William D. Toggle clamps. 3,170,214, 2-23-65, Cl. 24-263.
- Cock, Rudolf, J., to North American Philips Co., Inc. Production and stabilization of low direct voltage. 3,214,673, 10-26-65, Cl. 321-18.
- Cockburn, David H. Rotary fluid pressure pumps and motors of the eccentric vane type. 3,183,843, 5-18-65, Cl. 103-136.
- Cocke, Hill. Method of producing lined concrete pipe. 3,217,077, 11-9-65, Cl. 264-256.
- Cocker, John, III, to Cocker Machine & Foundry Co. Automatic textile beam transfer apparatus. 3,219,206, 11-23-65, Cl. 214-16.4.
- Cocker, John T., to Bell Telephone Laboratories, Inc. Bilateral constant voltage source. 3,174,095, 3-16-65, Cl. 323-22.
- Cocker Machine & Foundry Co.: See—
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- Cocker, John, III. 3,219,206.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,168,155, 2-2-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Skirts of flexible filamentary members for ground effect machines. 3,172,494, 3-9-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling along a prepared track. 3,174,440, 3-23-65, Cl. 104-120.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,174,570, 3-23-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Means for supporting loads. 3,174,571, 3-23-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,177,960, 4-13-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect machine having heave stability for traversing rough surfaces. 3,181,636, 5-4-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Means to eliminate foreign matter from the gaseous curtain in air supported vehicles. 3,181,637, 5-4-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,181,638, 5-4-65, Cl. 180-7.
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- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for traveling over land and/or water. 3,182,740, 5-11-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,185,239, 5-25-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect machines with supply and recovery ports in a common duct. 3,194,333, 7-13-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles supported on a cushion of air with recovery means for escaping curtain fluid. 3,203,498, 8-31-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicle for travelling over land and/or water with means to recover air from the fluid curtain. 3,205,959, 9-14-65, Cl. 180-7.
- Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water and equipped with depending side walls. 3,213,956, 10-26-65, Cl. 180-7.
- Cockrell, Vernon L. Animal dehorner apparatus. 3,177,584, 4-13-65, Cl. 30-228.
- Cockrell, Clifford M.: See—
Lee, Clarence O., and Cockrell. 3,169,576.
- Cocks, Eric H. Solenoid airless spray gun. 3,212,715, 10-19-65, Cl. 239-125.
- Cocks, Walter B., to Meredith Publishing Co. Thickness checking fixture. 3,176,402, 4-6-65, Cl. 33-147.
- Cocksedge, George T. Aircraft. 3,198,274, 8-3-65, Cl. 180-7.
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Brochier, Pierre, Kloos, and Cocquart. 3,225,260.
- Coda, Severina, V. A. Colo, A. Glaesser, and C. Pasini, to Societa Farmaceutici Italy. (2-N-alkyl-N-alkyl' aminoethyl) guanidine. 3,201,459, 8-17-65, Cl. 260-501.
- Coddington, David M.: See—
Spenadel, Lawrence, Bleber, and Coddington. 3,207,711.
- Codeco, Etablissements: See—
Devillard, Georges, and Coriat. 3,189,321.
- Codignola, Franco, to Societa Italiana Resine. Method of producing cumene hydroperoxide. 3,171,860, 3-2-65, Cl. 260-610.
- Codignola, Franco, C. Reni, and J. Ackermann, to Societa Italiana Resine. Method of purifying gaseous formaldehyde. 3,184,900, 5-25-65, Cl. 55-31.
- Codman & Shurtleff Inc.: See—
Mallina, Rudolf F. 3,225,996.
- Codrea, Nicholas D., to H. B. Rothbard. Partition structure. 3,195,698, 7-20-65, Cl. 189-34.
- Coe, Albert W.: See—
Kalvelage, Bernard F., and Coe. 3,182,873.
- Coe, Ann I.: See—
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- Coe, Bernard, to Alco Chemical Corp. Method and apparatus for film drying of viscous compositions. 3,194,297, 7-13-65, Cl. 159-7.
- Coe, Bryan, Jr.: See—
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- Coe, Clarence S.: See—
Dotman, Thomas F., and Coe. 3,196,607.
- Coe, David G., to E. I. du Pont de Nemours and Co. Azostyryl cationic dyes. 3,192,195, 6-29-65, Cl. 260-156.
- Coe, Frank R., to British Welding Research Assn. Measurement of gases in metals. 3,176,500, 4-6-65, Cl. 73-19.
- Coe, Herbert A. Feeding and like tray assembly. 3,226,074, 12-28-65, Cl. 248-311.
- Coe Mfg. Co., The: See—
Haumann, George. 3,198,226.
Pelto, Thomas A. 3,176,735.
Price, Howard E. 3,195,593.
Yock, Lewis M. 3,209,886.

- Coe, Merrill J., to KVP Sutherland Paper Co. Collapsible serving or carrying tray. 3,181,770, 5-4-65, Cl. 229-30.
- Coe, Orson E. Belt buckle. 3,178,787, 4-20-65, Cl. 24-196.
- Coe, Paul L.: See—
Tatlow, John C., and Coe. 3,187,056.
- Coe, Thomas D., to Wakefield Engineering, Inc. Heat transfer. 3,217,793, 11-16-65, Cl. 165-80.
- Coe, Thomas D., to Wakefield Engineering Co., Inc. Heat transfer. 3,220,471, 11-30-65, Cl. 165-121.
- Coelho, Paul E. Searchlights for use in fog and mist. 3,183,347, 5-11-65, Cl. 240-46.23.
- Coen, Aldo L. Transducer field structure assembly. 3,176,086, 3-30-65, Cl. 179-119.
- Coen, Aldo L. Method of making loudspeaker field structure. 3,191,421, 6-29-65, Cl. 72-329.
- Coen Co., Inc.: See—
Voorheis, Temple S. 3,218,049.
Voorheis, Temple S., Hudson, and Bruns. 3,204,610.
Voorheis, Temple S., and Vosper. 3,195,608.
Vosper, Ralph R. 3,217,782.
- Coen, Martin. Connector for electric cables. 3,176,258, 3-30-65, Cl. 339-42.
- Coen, Richard A., to Nopco Chemical Co. Package of fragile articles. 3,223,232, 12-14-65, Cl. 206-65.
- Coenen, Cyril B.: See—
Roberts, Lyman R., and Coenen. 3,188,301.
- Coenen, Cyril B., H. F. Richards, and R. J. Moore, to Shell Oil Co. Wax-olefin copolymer compositions. 3,210,305, 10-5-65, Cl. 260-28.5.
- Coenen, Max: See—
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- Coenen, Urban J. Silage distributor. 3,209,925, 10-5-65, Cl. 214-17.
- Coenraads, Cornelis N., to Ion Physics Corp. High voltage variable condenser. 3,175,135, 3-23-65, Cl. 317-249.
- Coes, Loring, Jr., and E. Millas, to Norton Co. Grinding machine. 3,167,891, 2-2-65, Cl. 51-165.
- Coesens, Henry L., to The Macallen Co., Inc. Punch press with dual feeding drive means. 3,192,812, 7-6-65, Cl. 83-209.
- Coester, Robert. Transverse-flow blower. 3,181,777, 5-4-65, Cl. 230-125.
- Coffee-Mat Corp.: See—
Small, Sollie W., and Herman. 3,221,587.
Small, Sollie W., and Herman. 3,221,637.
Small, Sollie W., and Herman. 3,221,933.
Small, Sollie W., and Herman. 3,222,500.
- Coffee, Thomas A. Optical communication system with modulated C.R.T. light source. 3,176,138, 3-30-65, Cl. 250-199.
- Coffee, Thomas A. Cathode-ray excited laser generator. 3,202,934, 8-24-65, Cl. 331-94.5.
- Coffelt, Robert J., and G. R. Giannini, to The Regents of The University of California. Color releasing machine. 3,203,339, 8-31-65, Cl. 99-240.
- Coffey, Charles S., to Edgerton, Germeshausen & Grier, Inc. High-speed gate circuit. 3,171,044, 2-23-65, Cl. 307-88.5.
- Coffey, Ralph J., to American Chain & Cable Co., Inc. Chain-making apparatus. 3,175,353, 3-30-65, Cl. 59-22.
- Coffield, Thomas H.: See—
Ihrman, Kryn G., and Coffield. 3,164,621.
- Coffield, Thomas H., to Ethyl Corp. Organic compositions stabilized with 3,5-dialkyl-4-hydroxybenzyl amine. 3,208,859, 9-28-65, Cl. 99-163.
- Coffield, Thomas H., to Ethyl Corp. Sulfur-containing phenolic compounds. 3,211,794, 10-12-65, Cl. 260-609.
- Coffield, Thomas H., to Ethyl Corp. N-methyl-N-phenyl-N-(3,5-di-tertiary-butyl-4-hydroxybenzyl) amine. 3,225,099, 12-21-65, Cl. 260-570.9.
- Coffield, Thomas H., and A. H. Filbey, to Ethyl Corp. 4,4'-methylenebis (2,6-dialkylphenol) compounds. 3,175,010, 3-23-65, Cl. 260-619.
- Coffield, Thomas H., and G. J. Burcal, to Ethyl Corp. Preparation of aromatic iron subgroup metal coordination compounds. 3,190,902, 6-22-65, Cl. 260-439.
- Coffield, Thomas H., and A. H. Filbey, to Ethyl Corp. Two-cycle internal combustion engine fuel. 3,192,910, 7-6-65, Cl. 123-1.
- Coffin, Claude D., to The Warner & Swasey Co. Machine tools. 3,200,680, 8-17-65, Cl. 82-2.5.
- Coffin, Harland H., to Product Machine Co. Insulated die set. 3,170,735, 2-23-65, Cl. 308-4.
- Coffin, Harland H., to Product Machine Co. Method of making an electrically insulated joint. 3,195,374, 7-20-65, Cl. 76-107.
- Coffin, Louis F., Jr., to General Electric Co. Liquid metal electrical connection. 3,226,608, 12-28-65, Cl. 317-234.
- Coffing, James R. Flat-faced attitude indicator. 3,181,249, 5-4-65, Cl. 33-204.
- Coffing, James R. Attitude indicator. 3,199,207, 8-10-65, Cl. 33-204.
- Coffing, James R. Attitude indicator. 3,208,426, 9-28-65, Cl. 116-129.
- Coffman, Frederick E.: See—
Yonker, Francis H., and Coffman. 3,177,595.
- Coffman, Nellie V., and J. L. Wilson. Readily portable shampoo device. 3,192,537, 7-6-65, Cl. 4-159.
- Coffman, Raphael T., to United States of America, Atomic Energy Commission. Apparatus for weighing material in a sealed enclosure. 3,166,136, 1-19-65, Cl. 177-262.
- Co-5 Co., Inc.: See—
First, Harry W. 3,166,325.
- Cogan, Margaret R., to Clevite Corp. Piezoelectrically powered X-ray equipment. 3,217,163, 11-9-65, Cl. 250-90.
- Cogan, Stanley W., to North American Aviation, Inc. Case rotated gyroscope. 3,214,981, 11-2-65, Cl. 74-5.4.
- Cogar, George, to Sperry Rand Corp. Asynchronous self-controlled shift register. 3,166,715, 1-19-65, Cl. 328-37.
- Cogar, George R., D. O. Neddenriep, E. G. Sevilla, T. Sekse, and E. E. Masterson, to Sperry Rand Corp. Display panels with selectable indicators. 3,188,621, 6-8-65, Cl. 340-324.
- Cogar, George R., and T. Sekse, to Sperry Rand Corp. Synchronized single pulser. 3,193,697, 7-6-65, Cl. 307-88.5.
- Cogdell, Louis D. High-pressure automatic irrigation fluid changer. 3,180,358, 4-27-65, Cl. 137-624.11.
- Coggan, William G., and G. Godin, to Johns-Manville Corp. Cold caustic fiberboard manufacture. 3,202,569, 8-24-65, Cl. 162-13.
- Coggeshall, Charles H. Animated wheeled eating toy. 3,197,918, 8-3-65, Cl. 46-103.
- Coggeshall, Norman D., and O. K. Doolen, to Gulf Research & Development Co. Sampling apparatus. 3,203,250, 8-31-65, Cl. 73-422.
- Coggins, Robert W.: See—
Glasgow, Clarence O., and Coggins. 3,206,916.
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Walker, Jay P., and Coggins. 3,174,926.
- Coghill, Henry D.: See—
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- Coghill, Henry D., to General Electric Co. Radiation sensitive electroluminescent devices. 3,213,317, 10-19-65, Cl. 315-59.
- Coghill, James T., to The Black Clawson Co. Flexible doctor blade coating apparatus. 3,187,718, 6-8-65, Cl. 118-126.
- Cogliana, Joseph A.: See—
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- Cognet, Firmin E. A., and L. L. Mohler, to Societe General D'Exploitations Industrielles, Societe anonyme dite. Bus bar housing with externally attached bus bar supporting insulators. 3,221,097, 11-30-65, Cl. 174-99.
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- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 3,166,958, 1-26-65, Cl. 77-73.5.
- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 3,172,309, 3-9-65, Cl. 77-73.5.
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- Cogswell, David W., to United Aircraft Corp. Static and dynamic torque controller. 3,204,485, 9-7-65, Cl. 74-665.
- Cohan, Alvin M., to American Production Machine Co. Work advancing and rotating apparatus. 3,190,463, 6-22-65, Cl. 214-1.
- Cohan, Sidney, to Northrop Corp. Jet aircraft structure for engine removal. 3,194,515, 7-13-65, Cl. 244-54.
- Cohen, Abraham B.: See—
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- Cohen, Abraham B., to E. I. du Pont de Nemours and Co. Silver image transfer polymerization process. 3,194,661, 7-13-65, Cl. 96-48.
- Cohen, Abraham B., and R. H. Luebke, Jr., to E. I. du Pont de Nemours and Co. Photopolymerizable elements and transfer processes. 3,198,633, 8-3-65, Cl. 96-28.
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- Cohen, Allen: See—
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- Cohen, Arthur E., to North American Aviation, Inc. Microwave switch. 3,205,493, 9-7-65, Cl. 343-5.
- Cohen, Charles A., to Esso Research and Engineering Co. Perhydro bis-(isoprenyl) alkyl aryl sulfonates. 3,196,174, 7-20-65, Cl. 260-505.
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- Cohen, David. Portable charcoal lighter. 3,177,826, 4-13-65, Cl. 110-1.
- Cohen, David Z.: See—
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- Cohen, Donald B., to Goodyear Aerospace Corp. Vehicle guidance system and electron image matcher. 3,194,511, 7-13-65, Cl. 244-14.
- Cohen, Eli. Bracket for supporting a receptacle. 3,172,584, 3-9-65, Cl. 224-42.45.
- Cohen, Elle, and S. Roth. Alternating-current machines. 3,178,598, 4-13-65, Cl. 310-98.
- Cohen, Erwin M.: See—
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- Cohen, Hyman L.: See—
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- Cohen, Irvin, and B. D. Levy, to Construction Fasteners, Inc. Fastener assembly. 3,196,733, 7-27-65, Cl. 85-75.
- Cohen, Jerome: See—
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- Cohen, Joseph H., to United Aircraft Corp. Operating control for electron beam machines. 3,165,619, 1-12-65, Cl. 219-121.
- Cohen, Julius, to General Telephone and Electronics Laboratories Inc. Tunnel cathode having a metal grid structure. 3,184,659, 5-18-65, Cl. 317-238.
- Cohen, Karl: *See*—
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- Cohen, Leonard A. Composite space vehicle. 3,173,627, 3-16-65, Cl. 244-1.
- Cohen, Leonard A. Apparatus for producing linear acceleration of a mass. 3,221,419, 12-7-65, Cl. 35-12.
- Cohen, Leonard A. Electrical socket. 3,222,631, 12-7-65, Cl. 339-40.
- Cohen, Lester A., to Monsanto Chemical Co. Blend of a diene rubber-based graft copolymer, an emulsion-polymerized styrene-acrylonitrile type interpolymer, and a suspension-polymerized styrene-acrylonitrile type interpolymer. 3,222,422, 12-7-65, Cl. 260-876.
- Cohen, Louis H., to Phelps Time Recording Lock Corp. Universal sliding door locking mechanism. 3,172,280, 3-9-65, Cl. 70-100.
- Cohen, Marvin C. Closure control. 3,197,984, 8-3-65, Cl. 70-271.
- Cohen, Marvin P.: *See*—
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- Cohen, Maurice. Garment display rack with vertically movable hangers. 3,206,038, 9-14-65, Cl. 211-174.
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- Cohen, Max A.: *See*—
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- Cohen, Merrill, to General Electric Co. Epoxy organopolysiloxanes. 3,219,624, 11-23-65, Cl. 260-46.5.
- Cohen, Merrill, and C. B. Reilly, to General Electric Co. Curing of organopolysiloxanes. 3,205,197, 9-7-65, Cl. 260-46.5.
- Cohen, Milton J.: *See*—
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- Cohen, Murray S.: *See*—
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- Cohen, Murray S., J. Green, S. I. Karlan, and N. Mayes, to Thiokol Chemical Corp. Boron-containing polymer and method of making the same. 3,183,216, 5-11-65, Cl. 260-83.5.
- Cohen, Murray S., and M. M. Fein, to Thiokol Chemical Corp. Preparation of solid reaction products of nitriles and decaborane. 3,201,450, 8-17-65, Cl. 260-165.1.
- Cohen, Neal B., and T. D. Reader, to Sperry Rand Corp. Tape feeding apparatus. 3,191,837, 6-29-65, Cl. 226-118.
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- Cohen, Robert J., to General Precision, Inc. Displacement pickoff for gyroscope. 3,208,288, 9-28-65, Cl. 74-5.6.
- Cohen, Robert J., W. M. Carow, and R. K. Brodersen, to General Precision, Inc. Gyro spin motor rotation detector. 3,204,135, 8-31-65, Cl. 310-46.
- Cohen, Saul M., and J. Lillfeld, to Clinton Industries, Inc. Control systems for sewing machines. 3,209,713, 10-5-65, Cl. 112-219.
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- Cohen, William. Telescopic form containers and dispensers. 3,179,278, 4-20-65, Cl. 220-8.
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- Cohn, Charles C., to S. L. and C. C. Cohn, d.b.a. Colonial Alloys Co. Treatment of aluminum oxide coatings. 3,174,916, 3-23-65, Cl. 204-35.
- Cohn, Charles C., to Colonial Alloys Co. Cigarette. 3,183,914, 5-18-65, Cl. 131-4.
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- Cohn, Harold J. Extensible and retractible support for trays and the like. 3,178,034, 4-13-65, Cl. 211-131.
- Cohn, Johann G. E., to Engelhard Industries, Inc. Process for selectively removing carbon monoxide from hydrogen-containing gases. 3,216,782, 11-9-65, Cl. 23-2.
- Cohn, Johann G. E., to Engelhard Industries, Inc. Process for selectively removing carbon monoxide from hydrogen-containing gases. 3,216,783, 11-9-65, Cl. 23-2.
- Cohn, Johann G. E., and A. P. Haul, to Engelhard Industries, Inc. Purification of internal combustion engine exhaust gas. 3,197,955, 8-3-65, Cl. 60-30.
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- Cohn, John, M. Cooper, and T. Saltzberg, to Motorola, Inc. Binary code signalling system having a binary counter at the receiver responsive to a selected code. 3,175,191, 3-23-65, Cl. 340-164.
- Cohn, John, and O. M. Enesa, to Motorola, Inc. Radio receiver circuit with audio noise blanker for sustained impulses. 3,195,052, 7-13-65, Cl. 325-478.
- Cohn, Joseph: *See*—
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- Cohn, Marius, and R. Lindaman, to Sperry Rand Corp. Data processing system. 3,197,760, 7-27-65, Cl. 340-347.
- Cohn, Maurice. Switch severing mechanism. 3,208,322, 9-28-65, Cl. 83-222.
- Cohn, Maurice. Tape tensioning and feeding mechanism for a fastener applying machine. 3,208,657, 9-28-65, Cl. 227-136.
- Cohn, Max, to South River Metal Products Co. Inc. Telescopic mounting bracket. 3,186,772, 6-1-65, Cl. 308-3.8.
- Cohn, Morris G. Reel handling mechanism. 3,169,789, 2-16-65, Cl. 294-16.
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- Cohn, Samuel, J. and E., and F. Catallo, to Samco Holding Corp. Method and means for slitting and opening tubular material. 3,196,723, 7-27-65, Cl. 83-23.
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- Schwab, Helmut, Horst, Van Voorhis, and Coll. 3,225,470.
- Coll, Stanley F., to The National Cash Register Co. Coded tag printer using punched tags. 3,199,444, 8-10-65, Cl. 101-45.
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- Colle, Benjamin F., to Textile Machine Works. Pattern mechanism for knitting machines. 3,169,384, 2-16-65, Cl. 66-50.
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- Haverstick, Merril P., and Lotspelch. 3,181,678.
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- Coker, Cecil H., to Wisconsin Alumni Research Foundation. Circuit breaker with bistable circuit for overcurrent protection. 3,178,617, 4-13-65, Cl. 317-33.
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- Coker, William P., and G. E. Ham, to The Dow Chemical Co. Selective hydrogenation of haloolefins. 3,179,705, 4-20-65, Cl. 260-648.
- Colace, Gino F. Ski bike. 3,178,196, 4-13-65, Cl. 280-16.
- Colalaco, August P., to Westinghouse Electric Corp. High voltage rectifier. 3,211,969, 10-12-65, Cl. 317-234.

- Colalillo, Edward P., to Philco Corp. Heating apparatus. 3,170,061, 2-16-65, Cl. 219-413.
- Colangelo, Monte V. Fishing lure. 3,197,910, 8-3-65, Cl. 43-42.51.
- Colao, Ralph J., and P. M. Levy, to General Precision, Inc. Dynamic memory circuit. 3,171,980, 3-2-65, Cl. 307-88.5.
- Colautti, Albert J., to General Motors Corp. Horizontal drive means for powered seat adjusters. 3,184,209, 5-18-65, Cl. 248-429.
- Colbert, George P., to E. I. du Pont de Nemours and Co. Stabilization of chlorobutadiene monomers with nitrogen tetroxide diisobutylene addition product. 3,175,012, 3-23-65, Cl. 200-652.5.
- Colbert, Otto F. Work holder. 3,182,989, 5-11-65, Cl. 269-81.
- Colbert, Otto F. Baited-hook carrier. 3,200,531, 8-17-65, Cl. 43-41.2.
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- Colburn, Ben W. Vehicle wheel construction. 3,212,551, 10-19-65, Cl. 152-406.
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- Colburn, William H., Jr.: See—
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- Colby, Edward E., to The Procter & Gamble Co. Slurry treatment of flour with proteolytic enzymes and dry mixes utilizing the resulting flour. 3,167,432, 1-26-65, Cl. 99-93.
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- Coldren, Chester P., to Eaton Mfg. Co. Electrical conductor terminal clamp. 3,191,140, 6-22-65, Cl. 339-246.
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- Coldren, Virgil K. S., and M. F. Buckley, to Chester Tricot Mills, Inc. Yarn tension indicating and comparing device. 3,212,328, 10-19-65, Cl. 73-143.
- Cole, Albert J., to The Firestone Tire & Rubber Co. Paint dispersion. 3,205,188, 9-7-65, Cl. 260-29.7.
- Cole, Austin, III, to United Process Machinery Co. Portable foam generating apparatus. 3,178,157, 4-13-65, Cl. 259-4.
- Cole, Burrell C., 50% to C. H. Williams. Top roll assembly for fiber attenuating apparatus. 3,167,820, 2-2-65, Cl. 19-253.
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- Cole, C. W. & Co., Inc.: See—
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- Cole, Charles M., P. E. Bickel, and W. W. Word, Jr., to Armco Steel Corp. Wellhead apparatus. 3,171,489, 3-2-65, Cl. 166-66.5.
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- Cole, Fred H. Electrical power contact and hinged conductor. 3,209,087, 9-28-65, Cl. 200-8.
- Cole, George S. Proportioning valve. 3,172,426, 3-9-65, Cl. 137-636.4.
- Cole, Gerard McL., and D. C. MacLaughlin, to Argos Products Co., Inc. Enclosure for focusing a loudspeaker sound column. 3,179,202, 4-20-65, Cl. 181-31.
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- Cole, Henry B., to American Optical Co. Method and apparatus for fusing fiber optical image transfer devices. 3,211,540, 10-12-65, Cl. 65-4.
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- Cole, Howard W., Jr. Automatic wheel lock tow bar operated release. 3,213,974, 10-26-65, Cl. 188-142.
- Cole, James D., to Myers K. Parson. Evaporative coolers. 3,166,610, 1-19-65, Cl. 261-29.
- Cole, James N., H. R. Foglia, and J. R. Kiseda, to International Business Machines Corp. High speed pulse forming network including constant current grounded base transistor. 3,215,855, 11-2-65, Cl. 307-88.5.
- Cole, Jeremy C., to Arthur G. McKee & Co. Hammer mill. 3,219,285, 11-23-65, Cl. 241-76.
- Cole, Jimmy R.: See—
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- Cole, Jimmy R., to Continental Oil Co. Pulse generator having high repetition rate employing three SCR's for driving low impedance load. 3,209,174, 9-28-65, Cl. 307-88.5.
- Cole, Jimmy R., to Continental Oil Co. Method and apparatus for maintaining phase relation. 3,219,971, 11-23-65, Cl. 340-15.5.
- Cole, John A., to The Water Research Assn. Devices for transmitting signals. 3,196,686, 7-27-65, Cl. 73-398.
- Cole, John E., Jr., and W. H. Gumprecht, to E. I. du Pont de Nemours and Co. Single pad thermal process for dyeing textile fibers. 3,184,282, 5-18-65, Cl. 8-21.
- Cole, John E., Jr., and W. H. Gumprecht, to E. I. du Pont de Nemours and Co. Process for applying fiber reactive dyes to cellulosic materials. 3,184,283, 5-18-65, Cl. 8-54.2.
- Cole, John W.: See—
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- Freiberg, Leslie A., and Cole. 3,218,341.
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- Cole, Leland G., to Consolidated Electrodynamics Corp. Electrolytic process for removing moisture. 3,188,283, 6-8-65, Cl. 204-129.
- Cole, Leo F., and J. A. Pfleger. Bicycle license plate bracket. 3,186,665, 6-1-65, Cl. 248-28.
- Cole, Leslie C.: See—
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- Cole, Manny. Device for holding containers during washing. 3,181,701, 5-4-65, Cl. 211-74.
- Cole, Marc, to Hoffmann-La Roche Inc. Process for the preparation of sodium aluminum methoxy hydride. 3,184,492, 5-18-65, Cl. 260-448.
- Cole, Melrose R., to Technical Operations, Inc. Thermo-electric refrigerator. 3,172,269, 3-9-65, Cl. 62-3.
- Cole, Morton S., to The Pillsbury Co. Process for dehydrating potatoes. 3,219,464, 11-23-65, Cl. 99-207.
- Cole National Corp.: See—
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- Cole, Norman G., Jr. Screen for motor vehicles. 3,166,116, 1-19-65, Cl. 160-40.
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- Cole, Perry N. Juice can holder and dispenser. 3,217,929, 11-16-65, Cl. 222-83.5.
- Cole, Ralph C., Phillips Petroleum Co. Mercaptans production. 3,166,598, 1-19-65, Cl. 260-609.
- Cole, Raymond C., to International Latex Corp. Split band brassiere. 3,208,453, 9-28-65, Cl. 128-428.
- Cole, Raymond S.: See—
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- Cole, Richard W., to United States of America, Navy. Ram pressure stepping motor control for missile guidance. 3,170,656, 2-23-65, Cl. 244-14.
- Cole, Robert H., to Bunker-Ramo Corp. Pulse peak detector circuit. 3,178,595, 4-13-65, Cl. 307-88.5.
- Cole, Robert M., to L. Nusbaum. Insecticides. 3,184,378, 5-18-65, Cl. 167-24.
- Cole, Rudolf A., to Racole Trading & Mfg. Co. Ltd. Ladders. 3,216,526, 11-9-65, Cl. 182-163.
- Cole, Samuel L., Jr., A. F. Spurgeon, R. I. Kiger, and R. L. King. Electric animal trap. 3,197,916, 8-3-65, Cl. 43-66.
- Cole, Samuel W., to General Electric Co. Thermal motor for rotating a rotisserie shaft. 3,184,914, 5-25-65, Cl. 60-23.
- Cole, Thomas M., to Federal Pacific Electric Co. High interrupting capacity circuit breakers with electrodynamic latch release. 3,192,344, 6-29-65, Cl. 200-116.
- Coleal, William A., to Aerojet-General Corp. Hybrid rocket motor. 3,214,906, 11-2-65, Cl. 60-35.6.
- Colebrook, James N., to The Lodge & Shipley Co. Boring and turning lathes. 3,186,269, 8-1-65, Cl. 82-14.
- Colebrook, Ross W., S. H. Feld, and G. F. Goetz, to The Boeing Co. Two part thrust reverser. 3,164,956, 1-12-65, Cl. 60-35.54.
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- Colegrove, Forrest D., Jr., and L. D. Scheerer, to Texas Instruments Inc. Resonance line shift compensated retractable helium magnetometer. 3,211,994, 10-12-65, Cl. 324-5.
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- Coleman, Charles H., Jr., to Columbia Broadcasting System, Inc. Apparatus for modifying the timing characteristic of a signal. 3,202,769, 8-24-65, Cl. 179-100.1.

- Coleman Co., Inc., The: See—
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- Conger, Robert P., and J. J. Jecker, to Congoleum-Nairn Inc. Decorative surface coverings and process for producing them. 3,180,779, 4-27-65, Cl. 161-6.
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- Conix, André J., to Gevaert-Photo-Producten N.V. High molecular weight linear polycarbonates of di(hydroxyphenyl)-methanes. 3,185,664, 5-25-65, Cl. 260-47.
- Conix, André J., to Gevaert Photo-Producten N.V. Production of linear aromatic polyesters containing isophthalic acid. 3,216,970, 11-9-65, Cl. 260-47.
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- Conklin, Alexander G. Control device for a marine outboard motor. 3,174,357, 3-23-65, Cl. 74-480.
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- Cooper, Clinton T. Mat switch having U-shaped binding clamps. 3,165,606, 1-12-65, Cl. 200-86.
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- Cooper, Donald E., and S. A. Herres, to Titanium Metals Corp. of America. Casting refractory metals. 3,201,835, 8-24-65, Cl. 22-68.
- Cooper, Donald L., R. R. Erick, H. P. Tyler, R. W. Loy, and J. L. Peczkowski, to The Bendix Corp. Pump control means. 3,213,805, 10-26-65, Cl. 103-162.
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Adams, Rowland K., and Cooper. 3,173,897.
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- Coover, Harry W., Jr., to Eastman Kodak Co. Monosubstituted aluminum dihalide catalysts for olefin polymerization. 3,222,337, 12-7-65, Cl. 260-88.2.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Process for preparing α -monoolefinic hydrocarbons. 3,165,557, 1-12-65, Cl. 260-683.15.
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- Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Three-component metal hydride-transition metal halide catalyst and olefin polymerization process therewith. 3,201,379, 8-17-65, Cl. 260-93.7.
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- Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Metal-transition metal halide olefin polymerization catalysts modified by the presence of an arsine or stibine. 3,220,997, 11-30-65, Cl. 260-93.7.
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- Cordiale, Roy A., P. A. Pagan, and J. J. Skelly, to Purex Corp., Ltd. Molded bottle ejection apparatus and method. 3,211,815, 10-12-65, Cl. 264-94.
- Cordiano, Ettore, to Fiat Societa per Azioni. Hydraulic braking system for vehicles. 3,191,999, 6-29-65, Cl. 303-22.
- Cordier, David E., to The Upjohn Co. Polyurethanes from tris(β -hydroxyethyl)isocyanurate and diphenylmethane diisocyanate. 3,174,950, 3-23-65, Cl. 260-77.5.
- Cordier, Jean, to Institut de Recherches de la Siderurgie Francaise. Process and apparatus for controlling shaft furnaces. 3,212,879, 10-19-65, Cl. 75-41.
- Cordillo, Cosimo J. Artificial candle. 3,169,387, 2-16-65, Cl. 67-55.
- Cordis Corp.: See—
Williamson, Donald E. 3,197,782.
- Cordis, Gladys S.: See—
Cordis, Nat. 3,213,796.
Cordis, Nat. 3,213,873.
- Cordis, Nat. deceased (by G. S. Cordis, executrix), $\frac{3}{4}$ to C. F. Jensen, and $\frac{1}{4}$ to G. T. Dobie. Variable proportioner. 3,213,796, 10-26-65, Cl. 103-38.
- Cordis, Nat. deceased (by G. S. Cordis, executrix), $\frac{3}{4}$ to C. F. Jensen, and $\frac{1}{4}$ to G. T. Dobie. Self-powered fluid treater. 3,213,873, 10-26-65, Cl. 137-99.
- Cordova, Elmer R. Apparatus for integral molding of irregularly shaped hollow articles. 3,166,817, 1-26-65, Cl. 25-130.
- Cordova, Inc.: See—
Beyer, Walter. 3,212,837.
- Cordray, Arthur C.: See—
Acosta, Tracy, and Cordray. 3,217,763.
- Cordray, Arthur C., and T. Acosta. Cup transfer mechanism for fruit juicing machine. 3,221,780, 12-7-65, Cl. 141-83.
- Cordry, Burton L.: See—
Gunkel, William F., Willey, Christianson, Kirner, Jackson, Cordry, Papanicolaou, Bath, and Visser. 3,185,981.

- Cordry, Burton L., to The Bendix Corp. Antenna switching system. 3,202,986, 8-24-65, Cl. 343-9.
- Cordry, Burton L., to The Bendix Corp. Doppler system ramp test set. 3,208,066, 9-21-65, Cl. 343-17.7.
- Cordts, Howard P.: See—
- Doedens, James D., Cordts, and Wisniewski. 3,178,480.
- Doedens, James D., Cordts, and Wisniewski. 3,189,558.
- Doedens, James D., Cordts, and Wisniewski. 3,216,179.
- Cordts, Howard P., and J. D. Doedens, to The Dow Chemical Co. Halomethylated diaryloxides as catalysts for curing phenol- and urea-formaldehyde-type resins. 3,169,939, 2-16-65, Cl. 260-38.
- Core, Elias A. Picture frame. 3,195,256, 7-20-65, Cl. 40-156.
- Core Laboratories, Inc.: See—
- Stuart, Robert W., and Wisenbaker. 3,173,500.
- Core Mfg. Co.: See—
- Duenke, Clarence G. 3,189,860.
- Duenke, Clarence G. 3,204,210.
- Corella, Arthur P.: See—
- Schneider, William S., and Corella. 3,217,934.
- Schneider, William S., and Corella. 3,224,640.
- Coren, Simon, and D. R. Stentiford; said Stentiford assor. to said Coren. Ear lobe piercing device. 3,187,751, 6-8-65, Cl. 128-330.
- Corey, Edward J., to The Sierracin Corp. Inverter system. 3,214,671, 10-26-65, Cl. 321-3.
- Corey, Philip D., to General Electric Co. Variable frequency oscillator. 3,217,171, 11-9-65, Cl. 307-57.
- Corey, Richard C., to Pennsalt Chemicals Corp. Conditioning of wastes. 3,180,824, 4-27-65, Cl. 210-8.
- Corey, Robert J. Two-part looptakers. 3,223,060, 12-14-65, Cl. 112-228.
- Corey, Robert W., to Emerson Electric Co. Tension control system using a high slip motor driven variable ratio transmission. 3,179,863, 4-20-65, Cl. 318-6.
- Corfield, Joseph W., 1/2 to Guy F. Atkinson Co. Pile driving apparatus. 3,197,967, 8-3-65, Cl. 61-53.68.
- Corfield, Norman M., and K. A. Smith, 1/2 to The Villiers Engineering Co. Ltd. Internal combustion engine ignition systems. 3,213,840, 10-26-65, Cl. 123-148.
- Corhart Refractories Co.: See—
- Alper, Allen M., and Keihn. 3,198,643.
- McTaggart, George D. 3,216,837.
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- Rose, Robert P. 3,183,865.
- Slaughter, John I. 3,201,267.
- Corlat, Léon: See—
- Devillard, Georges, and Corlat. 3,189,321.
- Coriell, George J., to Corlift Corp. Hinge construction and method for elevating a chair seat. 3,179,072, 4-20-65, Cl. 108-145.
- Corlet, Gabriel F., to Applications des Gaz. Portable gas stove. 3,189,016, 6-15-65, Cl. 126-38.
- Corley, Charles B., Jr.: See—
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- Corley, Charles B., Jr., to Esso Production Research Co. Completion method and system for wells. 3,208,529, 9-28-65, Cl. 166-46.
- Corley, Charles B., Jr., to Esso Production Research Co. Completion system for wells. 3,208,533, 9-28-65, Cl. 166-205.
- Corley, Charles B., Jr., and P. R. McStravick, to Jersey Production Research Co. Well-pumping system. 3,166,944, 1-26-65, Cl. 74-95.
- Corley, Mark H. Portable bed. 3,218,037, 11-16-65, Cl. 256-25.
- Corlift Corp.: See—
- Coriell, George J. 3,179,072.
- Cormack, James A., to Ethicon, Inc. Surgical supply package. 3,189,174, 6-15-65, Cl. 206-63.2.
- Cormack, James B., Jr., D. H. Zipper, and S. T. Moreland, to Continental Can Co., Inc. Container vacuum capping method. 3,220,153, 11-30-65, Cl. 53-22.
- Corman, Edward M.: See—
- Balzer, Claude P., Corman, and Reiff. 3,170,268.
- Corman, Gareld M., to G. Alm. Machine for forming lenses and similar articles. 3,169,350, 2-16-65, Cl. 51-67.
- Cormier, Louis A. Bottle cap. 3,200,982, 8-17-65, Cl. 215-46.
- Cormier, Paul L. Starter for use with water skis. 3,179,222, 4-20-65, Cl. 193-35.
- Corn, Charles V., and J. De Lay, to Gainesville Machine Co., Inc. Chicken picking machine. 3,197,809, 8-3-65, Cl. 17-11.1.
- Corn Products Co.: See—
- Elwood, Francis E., and Schaub. 3,217,632.
- Katzbeck, Walter J., and Gabel. 3,181,961.
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- Corneal Lens Corp. Pty. Ltd.: See—
- Thomas, Penrhyn F. 3,183,637.
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- Cornell, Hampton G., to Esso Research and Engineering Co. Temperature control in hydrodealkylation. 3,192,281, 6-29-65, Cl. 260-672.
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- Cornelissen, Bernardus H. J., and J. Davidse, to North American Philips Co., Inc. Circuit arrangement in a color television receiver for converting the received and detected television signal into a signal suitable for application to a single-beam indexing tube. 3,193,618, 7-6-65, Cl. 178-5.4.
- Cornelissen, Johannes, A. M. Kruthof, and H. W. J. H. Meyer, to North American Philips Co., Inc. Method of manufacturing reinforced cathode-ray tube for television display. 3,222,206, 12-7-65, Cl. 117-40.
- Cornelius Co., The: See—
- Cornelius, Richard T. 3,195,566.
- Cornelius, Richard T. 3,197,007.
- Cornelius, Richard T. 3,209,952.
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- Keller, Paul. 3,181,796.
- Kovar, Henry C. 3,185,282.
- Snyder, Irving F. 3,204,818.
- Cornelius, Edward B., R. G. Craig, R. B. Cross, H. A. Shabaker, and D. E. Field, to Air Products and Chemicals, Inc. Method for producing attrition resistant sorptive alumina particles. 3,173,883, 3-16-65, Cl. 252-448.
- Cornelius, Edward B., and L. A. Cosgrove, to Air Products and Chemicals Inc. Dehalided platinum on alumina catalyst and reforming process therewith. 3,194,755, 7-13-65, Cl. 208-139.
- Cornelius, Gall, and I. C. Roemer, to R. M. Wade & Co. Power means for moving irrigation pipe. 3,211,382, 10-12-65, Cl. 239-212.
- Cornelius, Richard T., to The Cornelius Co. Readily disassembled valve. 3,195,566, 7-20-65, Cl. 137-454.2.
- Cornelius, Richard T., to The Cornelius Co. Coin controlled mechanism. 3,197,007, 7-27-65, Cl. 194-63.
- Cornelius, Richard T., to The Cornelius Co. Apparatus for producing and dispensing carbonated beverages. 3,209,952, 10-5-65, Cl. 222-129.1.
- Cornelius, Richard T., to The Cornelius Co. Ice-cube making machine having a spray type pump. 3,216,218, 11-9-65, Cl. 62-344.
- Cornelius, Richard T., to The Cornelius Co. Beverage dispensing valve structure. 3,216,445, 1-9-65, Cl. 137-594.
- Cornelius, Richard T., to The Cornelius Co. Spray type ice cube maker. 3,220,214, 11-30-65, Cl. 62-347.
- Cornelius, Richard T., and I. F. Snyder, to The Cornelius Co. Control structure for vending machine. 3,188,160, 6-8-65, Cl. 312-220.
- Cornelius, Richard T., and H. E. Dufresne, to The Cornelius Co. Apparatus for metering and mixing flowable ingredients to continuously supply a predetermined mixture. 3,199,531, 8-10-65, Cl. 137-304.
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- Cornell Aeronautical Laboratory, Inc.: See—
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- Rosenblatt, Frank. 3,192,505.
- Cornell, Archie R., to Westinghouse Electric Corp. Magnetic core structures. 3,209,293, 9-28-65, Cl. 336-134.
- Cornell, Archie R., to Westinghouse Electric Corp. Magnetic core structures. 3,209,294, 9-28-65, Cl. 336-134.
- Cornell, David, G. H. Birum, and J. R. Fair, to Monsanto Co. Extractive separation process. 3,206,377, 9-14-65, Cl. 202-39.5.
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- Cornell-Dubilier Electric Corp.: See—
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- Carter, Gerard, and Hodgkins. 3,221,228.
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- Wessling, Bernard. 3,217,381.
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- Cornell, Elliott C., Jr., to The Auto-Arc-Weld Mfg. Co. Control for electrode wire feed. 3,218,539, 11-16-65, Cl. 318-317.
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- Grell, Frank, Sr. 3,198,085.
- Cornell, Frank J., to The Ohio Crankshaft Co. High frequency inductor arrangement for heating a number of bar ends in a solenoidal coil. 3,182,168, 6-4-65, Cl. 219-10.69.
- Cornell Machine Co., The: See—
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- Cornell Mfg. Co.: See—
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- Cornell, William G., R. E. Colon, F. S. Weing, and B. Shattuck, to General Electric Co. High performance fluidynamic component. 3,216,455, 11-9-65, Cl. 138-39.
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- Cornett, Raymond: *See*—
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- Cornett, Walter V. Apparatus for tamping, and for breaking concrete and masonry. 3,181,627, 8-4-65, Cl. 178-100.
- Corney, John V., and A. Isaacs, to Ferguson Radio Corp. Ltd. D.C. restoration in amplifiers. 3,207,998, 9-21-65, Cl. 330-11.
- Corney, John V. J., to Ferguson Radio Corp. Ltd. Monostable pulse generator with charge storage prevention means. 3,225,217, 12-21-65, Cl. 307-88.5.
- Cornfield, Stanley M., to Reliable Mfg. Co. Picture hanger for use in combination with framed picture assembly. 3,218,747, 11-23-65, Cl. 40-152.1.
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- Corning Fibber Box Corp.: *See*—
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- Corning, Leon M., R. L. Friedenthal, and R. E. Sarafan, to Advance Chemical Co. Container and apparatus for toilet bowl cleaning fluid. 3,168,984, 2-9-65, Cl. 239-333.
- Corning, Leon M., R. L. Friedenthal, and R. E. Sarafan, to Advance Chemical Co. Container for toilet bowl cleaning fluid and receptacle for mop. 3,199,739, 8-10-65, Cl. 222-180.
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- Cornwell, Alexander M., Jr., to Jackes-Evans Mfg. Co. Stacking clip. 3,219,182, 11-23-65, Cl. 206-65.
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- Coro, Inc. of Rhode Island: *See*—
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- Corradetti, Marcello, to International Business Machines Corp. Circuit including transistor having low back voltage characteristic for switching a high voltage, negative-impedance device. 3,215,853, 11-2-65, Cl. 307-88.5.
- Corrall, Roy E., and G. N. Menasoff, to Anaconda Wire and Cable Co. Stranding apparatus and method. 3,169,360, 2-16-65, Cl. 57-34.
- Corran, Henry S., and J. E. Mulvey, to Arthur Guinness Son & Co. (Dublin) Ltd. Continuous lactic fermentation of beer. 3,210,196, 10-5-65, Cl. 99-29.
- Correale, James V., Jr., to United States of America, Navy. Neck sleeve for connecting a helmet to a life vest. 3,221,339, 12-7-65, Cl. 2-2.1.
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- Corren, Sidney A. Electricity generating cell. 3,218,195, 11-16-65, Cl. 136-86.
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- Corsette, Douglas F., to Calmar, Inc. Liquid dispenser. 3,179,306, 4-20-65, Cl. 222-321.
- Corsette, Douglas F., to Calmar, Inc. Atomizing device having an annular aspirating zone. 3,189,282, 6-15-65, Cl. 239-327.
- Corsette, Douglas F., to Calmar, Inc. Dispenser with stroke restricting overcap. 3,216,624, 11-9-65, Cl. 222-182.
- Corsette, Douglas F., to Calmar, Inc. Protective overcap and stop means for a dispenser. 3,216,625, 11-9-65, Cl. 222-182.
- Corsette, Douglas F., and R. C. Coopridge, to The Drackett Co. Protective cap for a liquid dispenser. 3,167,217, 1-26-65, Cl. 222-182.
- Corsette, Douglas F., and R. C. Coopridge, to The Drackett Co. Liquid dispenser. 3,191,814, 6-29-65, Cl. 222-384.
- Corsiglia, John T., to Interstate Electronics Corp. Squaring amplifier circuit including two transistors with series resistor and tunnel diode combination connected therebetween. 3,171,979, 3-2-65, Cl. 307-88.5.
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- Corson, Almon J., to General Electric Co. Power measuring rectifier bridge circuit including exponential impedance means in the bridge diagonal. 3,218,554, 11-16-65, Cl. 324-142.
- Corson, G. & W. H., Inc.: *See*—
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- Corte, Herbert, and E. Meier, to Farbenfabriken Bayer Aktiengesellschaft. Recovery of heavy metals from solutions. 3,216,786, 11-9-65, Cl. 23-14.5.
- Cortesi, Antonio. Machine for bevelling the edges of glass plates or the like. 3,187,467, 6-8-65, Cl. 51-34.
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- Cortina, Anthony. Replaceable heel for shoes. 3,188,755, 6-15-65, Cl. 36-42.

- Cortina, Anthony. Replaceable heel for shoes. 3,193,949, 7-13-65, Cl. 36-42.
- Cortland Corset Co., Inc.: See—
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- Corwith, James, W. H. Clendenin, and O. Koth, Jr., to International Harvester Co. Harvester feed element drive arrangement. 3,195,595, 7-20-65, Cl. 146-120.
- Corwin, Lloyd E. Air navigation instrument. 3,203,391, 8-31-65, Cl. 116-135.
- Cory, Carleton D., Jr.: See—
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- Cory, Charles E., to FMC Corp. Bag closing and tying machine and method. 3,225,507, 12-28-65, Cl. 53-14.
- Cory Corp.: See—
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- Cory, Howard E., to General Electric Co. Feedback failure protection for motor in crane control system. 3,179,869, 4-20-65, Cl. 318-257.
- Coryell, George M., and H. H. Fogler, to Eastman Kodak Co. Dimensionally stable gelatin-containing film product. 3,201,250, 8-17-65, Cl. 96-87.
- Cosby, Baden L., to Sperry Rand Corp. Transistor switching circuit with means to neutralize minority carrier storage. 3,201,600, 8-17-65, Cl. 307-88.5.
- Cosby, Edward J.: See—
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- Cosby, James R., and H. K. Janssen, to The Bendix Corp. Telemetering circuit. 3,169,231, 2-9-65, Cl. 331-65.
- Cosby, John W., W. R. Lauzan, and M. R. Riek, to Union Carbide Corp. Carbonized joint between carbon electrodes. 3,187,089, 6-1-65, Cl. 174-94.
- Coscione, Joseph D., and W. B. Schueren, to Ford Motor Co. Ventilator for a vehicle. 3,195,440, 7-20-65, Cl. 98-2.
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- Couzens, Reginald; 50% to M. Young. Tube making and label applying machine. 3,185,049, 5-25-65, Cl. 93-80.
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- Covington, Loren C., and R. L. Powell, to Titanium Metals Corp. of America. Electrolytic polishing tool. 3,202,598, 8-24-65, Cl. 204-224.
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- Cowan, Frank. Weed pick-up attachment for mowing machines. 3,191,369, 6-29-65, Cl. 56-25.4.
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- Crawford, William A., to E. I. du Pont de Nemours and Co. Drafting board assembly. 3,189,393, 6-15-65, Cl. 312-231.
- Crawford, William R., and W. B. Danielson, to Whirlpool Corp. Temperature regulating apparatus. 3,174,291, 3-23-65, Cl. 62-3.
- Crawley Industrial Products Ltd.: See—
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- Crawley, Raymond, and J. P. Fullam, to Jarry Hydraulics Ltd. Dual-position lockable actuator. 3,180,234, 4-27-65, Cl. 92-5.
- Craycraft, Lester V., to United States of America, Navy. Mechanical spike pulse filter for shock machine. 3,190,110, 6-22-65, Cl. 73-12.
- Crayford, Robert M., to Electro-Logic Corp. Signal converter systems. 3,164,825, 1-5-65, Cl. 340-347.
- Creagan, Robert J., to Westinghouse Electric Corp. Heterogeneous breeder or converter type neutronic reactor. 3,211,621, 10-12-65, Cl. 176-18.
- Creager, Billy N. Flexible mullion. 3,210,808, 10-12-65, Cl. 20-56.3.
- Creager, Jack H. Rotary internal combustion engine. 3,220,387, 11-30-65, Cl. 123-13.
- Creamer, Edgar M., Jr., and H. H. Wilson, Jr., to Philco Corp. Signal responsive load energization system. 3,193,706, 7-6-65, Cl. 307-88.5.
- Creamer, Merle T.: See—
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- Creamer, Merle T., and A. J. Guest. Stoppering element. 3,195,757, 7-20-65, Cl. 215-73.
- Creamer, Robert W., to Numeric Systems of Texas, Inc. Automatic punch press. 3,221,901, 12-7-65, Cl. 214-1.5.
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- Crean, John E., to The Carborundum Co. Abrasive disc. 3,186,135, 6-1-65, Cl. 51-394.
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- Cree, George B., Jr. Underground shelter. 3,173,387, 3-16-65, Cl. 109-1.
- Creech, Barnard C., L. V. Collings, and P. Shapiro, to Sinclair Research, Inc. Aqueous ammoniacal solution containing a complex arsenic compound. 3,168,392, 2-2-65, Cl. 71-59.
- Creech, Raymond J.: See—
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- Creed & Co. Ltd.: See—
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- Creed, Sherman H.: See—
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- Creed, Sherman H., to FMC Corp. Container feeding mechanism. 3,193,076, 7-6-65, Cl. 198-22.
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- Creed, Sherman H., D. F. Schlueter, and J. Stevenson, Jr., to Illinois Tool Works Inc. Container pack forming machine. 3,204,386, 9-7-65, Cl. 53-48.
- Creed, Sherman H., and J. L. Reimers, to FMC Corp. Fruit trimming apparatus. 3,211,203, 10-12-65, Cl. 146-81.
- Creed, Sherman H., and J. L. Reimers, to FMC Corp. Fruit orienting apparatus. 3,219,168, 11-23-65, Cl. 198-33.
- Creedle, Fred W., to American Brake Shoe Co. Railroad car retarders. 3,168,166, 2-2-65, Cl. 188-62.
- Creedon, John E., S. Schneider, and M. H. Zinn, to United States of America, Army. Conversion of heat to electricity. 3,175,105, 3-23-65, Cl. 310-4.
- Creeger, Larry D., and W. S. Neff, to Westinghouse Electric Corp. Fail-safe bearing structure. 3,183,043, 5-11-65, Cl. 308-1.
- Creel, Jack R. Ledger handrest for bookkeepers. 3,190,267, 6-22-65, Cl. 120-54.
- Creelman, Edmund W., to C. W. Zumbiel Co. Convertible article carrier and storage unit. 3,198,379, 8-3-65, Cl. 220-113.
- Creglow, Loran A., to United States Smelting Refining and Mining Co. Method for producing metallurgical coke and metal-coke from both coking and non-coking coals. 3,185,635, 5-25-65, Cl. 202-15.
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- Creighton, Martha M., W. Leimgruber, and W. Wenner, to Hoffmann-La Roche Inc. Isoquinoline acetamides and acetonitriles. 3,207,759, 9-21-65, Cl. 260-283.
- Creighton, Peter J., M. Nadler, and H. N. Wells, to Esso Research and Engineering Co. Recovering ether diluent in liquid polydiolefin manufacture. 3,222,409, 12-7-65, Cl. 260-669.
- Creighton, Stephen M., to Hooker Chemical Corp. Polymers of ethylenically unsaturated hydrocarbons containing Cl₂, Cl₃, O₂ or Cl₂, H₂, O₂, SCl₂ as fire retardants. 3,205,196, 9-7-65, Cl. 260-45.75.
- Creighton, William M., S. O. Evans, and A. E. McMurdy, to The Babcock & Wilcox Co. Method of forming an internal rib in the bore of a tube. 3,213,525, 10-26-65, Cl. 29-157.3.
- Cremer, Frits, to Oak Rubber Co. Method and apparatus for stripping articles from forms. 3,176,059, 3-30-65, Cl. 264-335.
- Cremer, Gottfried, H. Behrens, and W. Storbeck, to Fitok G.m.b.H. Process and apparatus for injecting liquid fuel. 3,217,780, 11-16-65, Cl. 158-77.
- Cremer, Joseph, and F. Rodis, to Knapsack-Griesheim Aktiengesellschaft. Apparatus for chemical reactions. 3,185,638, 5-25-65, Cl. 204-312.
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- Cremer, William C. Sewing machine with pattern attachment. 3,182,616, 5-11-65, Cl. 112-2.
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- Crespi, Giovanni. Refractory linings for furnaces. 3,204,937, 9-7-65, Cl. 263-46.
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- Crilly, Ira B., to Emhart Corp. Method and apparatus for molding thermoplastic sheet material. 3,193,599, 7-6-65, Cl. 264—90.
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- Croghan, Robert W., to The Thomas & Betts Co. Mounting and terminal block. 3,177,457, 4-6-65, Cl. 339—97.
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- Crone, Alfred F. Sealing element for pavement grooves. 3,179,026, 4-20-65, Cl. 94-18.
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- Cronkright, Grant L. Ski tow device. 3,193,038, 7-6-65, Cl. 180-10.
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- Cropper, Wendell P., and T. L. Thourson, to Standard Oil Co. Apparatus for X-ray determination of metal in hydrocarbon fuel. 3,210,541, 10-5-65, Cl. 250-43.5.
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- Cross, Alexander D., to Syntex Corp. 10 α -steroid-19-olc acid (19,11) lactones, 19-carboxylic acid (19 α ,11) lactones and 11 α ,19-dihydroxy- and 11 α -hydroxy-19-hydroxymethyl-10 α -androstenes. 3,167,548, 1-26-65, Cl. 260-239.57.
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- Cunningham, Arthur R. Replaceable tube insert for a pelletizing machine. 3,168,058, 2-2-65, Cl. 107-14.
- Cunningham, Arthur R., to Cunningham & Sons. Pelletizing machine having grooved pellet holes. 3,176,631, 4-6-65, Cl. 107-14.
- Cunningham, Arthur R., deceased; T. W. Cunningham and The First National Bank of Leesburg, executors. Crop conditioner. 3,197,947, 8-3-65, Cl. 56-1.
- Cunningham, Cecil C. Innerspring mattress construction. 3,166,768, 1-26-65, Cl. 5-351.
- Cunningham, Charles M.: See—
McCadam, Maurice B. 3,184,318.
- Cunningham, Charles M., and M. B. McCadam; said McCadam assor. of 5% to W. H. Mahr. Cheese dispensing apparatus. 3,184,844, 5-25-65, Cl. 31-5.
- Cunningham, Clarence T., to Owens-Illinois Glass Co. Process for making a stencil screen coating and composition therefor. 3,170,791, 2-23-65, Cl. 96-35.
- Cunningham, Clarence T., to Owens-Illinois Glass Co. Process for making a stencil screen coating and composition therefor. 3,170,792, 2-23-65, Cl. 96-35.
- Cunningham, Clarence V., and I. W. Lichtenfels, to General Electric Co. Plural motor railway acceleration control system. 3,184,664, 5-18-65, Cl. 318-58.
- Cunningham, Donald E., to Thompson Products, Inc. Method and apparatus for measuring magnetic fields using resonance radiation from a gas in the field. 3,197,694, 7-27-65, Cl. 324-43.
- Cunningham, Donald F., and D. W. Engle, to U.S. Partition & Packaging Corp. Brake mechanism for intermittent feeding construction. 3,200,910, 8-17-65, Cl. 188-85.
- Cunningham, Donald M., to Edwin L. Wiegand Co. Base-board heater assembly. 3,165,624, 1-12-65, Cl. 219-365.
- Cunningham, Henry L., to Hardings Bros., Inc. Hydraulic variable speed feed mechanism for machine tools and the like. 3,173,337, 3-16-65, Cl. 91-356.
- Cunningham, Henry L., to Hardinge Bros., Inc. Automatic machine tool control mechanism. 3,224,070, 12-21-65, Cl. 29-42.
- Cunningham, James J., to The American Tobacco Co. Cigarette package. 3,164,248, 1-5-65, Cl. 206-41.
- Cunningham, James M., to International Business Machines Corp. Leader sheet identification. 3,174,029, 3-16-65, Cl. 235-61.7.
- Cunningham, James M., to International Business Machines Corp. Type carrier device. 3,224,366, 12-21-65, Cl. 101-93.
- Cunningham, James R. Disposable syringe device. 3,192,925, 7-6-65, Cl. 128-216.
- Cunningham, James W.: See—
Bisulca, Anthony A., Cunningham, and Warenus. 3,222,054.
- Lane, Donald H., Cunningham, McDonald, and Tiller. 3,193,889.
- Cunningham, John H. Gauge for measuring alignment or misalignment and axially spacing of shafts. 3,214,839, 11-2-65, Cl. 33-148.
- Cunningham, John R. Cotton gin. 3,218,674, 11-23-65, Cl. 19-50.
- Cunningham, Joseph A.: See—
Horner, Richard F., and Cunningham. 3,200,987.
- Cunningham, McCleery B., to Sonoco Products Co. Method of making plastic impregnated paper tubes and resulting product. 3,170,489, 2-23-65, Cl. 138-145.
- Cunningham, Paul M., to Collins Radio Co. Blanking circuit synchronized with code for balancing detector interference. 3,167,771, 1-26-65, Cl. 343-103.
- Cunningham, Raymond B., to Cunningham & Sons. Pelletizing machine having restricted passages. 3,199,465, 8-10-65, Cl. 107-14.
- Cunningham, Richard, and C. F. Currey, to Westinghouse Electric Corp. Utilized vapor generation. 3,213,833, 10-26-65, Cl. 122-34.
- Cunningham, Richard, Jr.: See—
Mitchell, Gerald T., and Cunningham. 3,185,202.
- Cunningham, Robert A., to Martin-Marletta Corp. Particle reference device. 3,206,987, 9-21-65, Cl. 73-517.
- Cunningham, Robert A., to Cunningham & Sons. Adjustable pressure pelletizing machine. 3,207,090, 9-21-65, Cl. 107-14.
- Cunningham, Robert A., to Cunningham & Sons. Pelletizing machine drive. 3,207,091, 9-21-65, Cl. 107-14.
- Cunningham, Robert A., G. O. Atkinson, and W. H. Cline, Jr., deceased (by M. C. Cline, independent executrix), to Hughes Tool Co. Seal between a pair of relatively rotatably, radially extending surfaces. 3,199,878, 8-10-65, Cl. 277-88.
- Cunningham, Robert G.: See—
Brady, Joseph R., and Cunningham. 3,201,668.
- Cunningham, Robert L., A. V. Grant, J. Ng-Yelim, and K. V. Gow, to Her Majesty the Queen in right of Canada, as represented by the Minister of Mines and Technical Surveys. Ion bombardment camera for crystal orientation determination. 3,180,987, 4-27-65, Cl. 250-49.5.
- Cunningham & Sons: See—
Cunningham, Arthur R. 3,176,631.

Cunningham, Thomas W.: See—
Cunningham, Arthur R. 3,197,947.
Cunningham, Raymond B. 3,199,465.
Cunningham, Robert A. 3,207,090.
Cunningham, Robert A. 3,207,091.
Cunningham, Walter F., to Superior-Tabbles, Inc. Insert-receiving index tabs. 3,221,430, 12-7-65, Cl. 40-23.
Cunningham, Wesley B. Subterranean tunnel liner installation. 3,169,376, 2-16-65, Cl. 61-42.
Cunningham, William O., Jr. Lumber grade printer. 3,175,485, 3-30-65, Cl. 101-35.
Cunnington, George R., Jr.: See—
Stone, Richard L., and Cunningham. 3,183,822.
Cuny, Robert, to Brown, Boveri & Cie, Aktiengesellschaft. Shaft seal for gas-filled electric machines utilizing sealing liquid introduced into sealing ring located in annular chamber surrounding shaft. 3,199,877, 8-10-65, Cl. 277-29.
Cuny, Robert H.: See—
Wiedemann, Eugene, and Cuny. 3,165,365.
Cuomo, Gaetano, to Pollio Dairy Products Corp. Cheese cutting apparatus. 3,187,432, 6-8-65, Cl. 31-21.
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Gallant, Charles R., and Cuorato. 3,180,922.
Cupper, Robert A., and C. A. Wolf, Jr., to Union Carbide Corp. Process of treating synthetic lubricating oils with urea. 3,164,553, 1-5-65, Cl. 252-51.5.
Cupper, Robert A., and C. A. Wolf, Jr., to Union Carbide Corp. Synthetic functional fluids. 3,197,408, 7-27-65, Cl. 252-51.5.
Cippers, Curt, and K. Kirchhubel, to Oculus Optikgerate G.m.b.H. Support for a plurality of eye examination instruments. 3,201,795, 8-17-65, Cl. 351-38.
Curbmaster of America, Inc.: See—
Larsen, Burnham L., and B. J. 3,195,448.
Larsen, Burnham L., and B. J. 3,202,068.
Larsen, Burnham L., and B. J. 3,218,944.
Curby, William A. Mechanical pressure sensor. 3,174,125, 3-16-65, Cl. 338-47.
Curci, Alfred. Captive cap for containers. 3,225,971, 12-28-65, Cl. 222-515.
Curcio, Rinaldo M., to Fidelitone, Inc. Method of bonding a stylus tip. 3,171,175, 3-2-65, Cl. 22-202.
Curera, Jose A. Dental analgesia processes and devices. 3,213,851, 10-26-65, Cl. 123-1.
Curie, Robert J., and R. S. Hamilton, to The Corrugated Container Co. Disposable type dispensing container package. 3,173,579, 3-16-65, Cl. 222-105.
Curie, Robert J., and R. S. Hamilton, to The Corrugated Container Co. Dispensing valve. 3,223,117, 12-14-65, Cl. 137-556.6.
Curioni, Salvatore M. Frictionless piston pump. 3,200,759, 8-17-65, Cl. 103-153.
Curioni, Salvatore M. Adjustable pitch propeller. 3,216,507, 11-9-65, Cl. 170-160.32.
Curlee, W. F., Mfg. Co.: See—
Acres, Richard L. 3,221,794.
Curll, Allan R., Jr., to Philco Corp. Selective-frequency remote control system for television receivers having spurious noise signal suppression. 3,168,738, 2-2-65, Cl. 343-228.
Curll, Allan R., Jr., to Philco Corp. Heat exchange apparatus. 3,222,580, 12-7-65, Cl. 317-234.
Curran, Daniel R., and A. Berohn, to Clevite Corp. Wave filter comprising piezoelectric wafer electroded to define a plurality of resonant regions independently operable without significant electromechanical interaction. 3,222,622, 12-7-65, Cl. 333-72.
Curran, John R., to International Telephone and Telegraph Corp. Flow tubes. 3,196,680, 7-27-65, Cl. 73-213.
Curran, Kenneth E., P. Ver Planck, and J. A. Carlson, said Carlson and Ver Planck, assors., to said Curran. Mobile batching apparatus. 3,198,494, 8-3-65, Cl. 259-154.
Curran, Peter F., and W. W. Medlinski, to The Bendix Corp. Maximum command limiter device for an automatic flight control system. 3,201,675, 8-17-65, Cl. 318-489.
Curran Productions: See—
Drew, Richard A. 3,165,296.
Curran, Robert A., to Electrolab Printed Electronics Corp. Method of making an electric circuit structure. 3,202,591, 8-24-65, Cl. 204-38.
Curran, Robert E. Combination drilling and tapping jig. 3,224,021, 12-21-65, Cl. 10-1.
Curran, Thomas R.: See—
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Martin, James L. 3,174,246.
Currey, Charles F.: See—
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Currie, Grover C. Package. 3,221,876, 12-7-65, Cl. 206-65.
Currie, Grover C., Jr., to Weyerhaeuser Co. Article carrier and package. 3,189,215, 6-15-65, Cl. 220-115.
Currie, Herbert K. Framework layout tool. 3,169,320, 2-16-65, Cl. 33-96.
Currie, Roy E., Jr., to United States of America, National Aeronautics and Space Administration. Relay binary circuit. 3,189,794, 6-15-65, Cl. 317-140.

Currie, William E., to Parker-Hannifin Corp. Flareless tube coupling for plastic or metal tubing. 3,201,153, 8-17-65, Cl. 285-249.
Currier, Albert L., and L. J. Gianni, to Automatic Electric Laboratories, Inc. Floatingly mounted captive thumb-screw fastener. 3,209,806, 10-5-65, Cl. 151-69.
Currier, John A., to Scott & Williams, Inc. Knitting machine. 3,220,219, 11-30-65, Cl. 66-42.
Currier, Vernon A., and M. Cuscurida, to Jefferson Chemical Co., Inc. Piperazine derivatives and method of preparation. 3,221,016, 11-30-65, Cl. 260-268.
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Curry, Byron V., and J. M. Dunn. Multiple container package and carrier. 3,186,544, 6-1-65, Cl. 206-65.
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Curry, Irene V. M. Feeder for invalids. 3,165,241, 1-12-65, Cl. 222-490.
Curry, John K. Storage device and support. 3,193,231, 7-6-65, Cl. 248-223.
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Bradt, Albert J., Curry, and Estock. 3,201,655.
Curry, Paul. Method of, and means for, duplex-multiplex communications. 3,183,508, 5-11-65, Cl. 343-176.
Curry, Richard, R. A. Thompson, and J. E. Stearn, to United Aircraft Corp. Heat storage system. 3,178,113, 4-13-65, Cl. 237-8.
Curry, Robert J. Copy fitting device. 3,218,720, 11-23-65, Cl. 33-150.
Curtay, Adrienne M.: See—
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Curtin, John R., to Socony Mobil Oil Co., Inc. Preparation of aluminosilicate molecular sieve-silica gel composites. 3,207,701, 9-21-65, Cl. 252-451.
Curtin, Leo P., deceased; L. V. Curtin, executor. Cleaning and detergent compositions. 3,216,946, 11-9-65, Cl. 252-156.
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Curtin, Leo P. 3,216,946.
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Curtin, Paul J., to McGraw-Edison Co. Luminaire assembly. 3,225,187, 12-21-65, Cl. 240-25.
Curtis, Albert L., and B. B. Oliver. Card selector. 3,206,269, 9-14-65, Cl. 312-319.
Curtis, Arthur A., and D. D. Sherman, to United Aircraft Corp. Tube drawing apparatus. 3,195,331, 7-20-65, Cl. 72-7.
Curtis, Carl. Razor head guard. 3,177,582, 4-13-65, Cl. 30-90.
Curtis, Cora S. Container. 3,173,464, 3-16-65, Cl. 150-1.
Curtis, Cyril D., to United States of America, Atomic Energy Commission. High voltage electric generator. 3,175,104, 3-23-65, Cl. 307-109.
Curtis, Daniel L., to Litton Systems, Inc. Space enclosure cooling arrangement. 3,212,286, 10-19-65, Cl. 62-259.
Curtis, Daniel L., and S. Hansen, to Litton Systems, Inc. Ionization and plasma acceleration apparatus. 3,173,248, 3-16-65, Cl. 60-35.5.
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Bucek, Edward P., and Stier. 3,172,350.
Cabernoch, Louis J. 3,188,252.
Curtis, Francis: See—
Verrinder, Ernest A., and Curtis. 3,193,527.
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Curtis, Frank W., to Lexsuo, Inc. Vapor barrier and adhesive applicators. 3,222,241, 12-7-65, Cl. 156-575.
Curtis, George G., and B. Buchner, to The American Agricultural Chemical Co. Bis-(aziridinyl)-phosphinothioic esters as chemical sterilants for insects and mites. 3,207,661, 9-21-65, Cl. 167-33.
Curtis, Gerald R., J. C. Kyle, and G. Robinson, to Physical Sciences Corp. Method of making magnetic transducers. 3,183,126, 5-11-65, Cl. 148-12.
Curtis, Gerald R., and N. T. Kurfas, to Armco Steel Corp. Gas mixer for blast furnace stoves. 3,217,781, 11-16-65, Cl. 158-109.
Curtis, Glenn R., to Independent Grocers' Alliance Distributing Co. Portable roller conveyor for handling meat products. 3,220,527, 11-30-65, Cl. 193-35.
Curtis, Glenn R., to Independent Grocers' Alliance Distributing Co. Cooler for storage of meat products. 3,220,572, 11-30-65, Cl. 214-16.4.
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Halden, Frederick C., Conover, Farkas, and Curtis. 3,225,332.
Curtis, Harris L., to Polaroid Corp. Reduction of nitroolefins to amines. 3,187,046, 6-1-65, Cl. 260-570.8.

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Stanback, Harris I., and Curtis. 3,187,124.
Curtis, Helene, Industries, Inc.: See—
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Curtis Instruments, Inc.: See—
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Curtis, John C., to Joy Mfg. Co. Centralizer. 3,206,259, 9-14-65, Cl. 308-3.9.
Curtis, John C., and T. A. Parssinen, to Joy Mfg. Co. Adjustable jib mounting for rock drills. 3,212,738, 10-19-65, Cl. 248-16.
Curtis, John E.: See—
Nickerson, Mortimer H., Schnitzer, Curtis, and Patterson. 3,223,654.
Curtis, Joseph A., Jr. Automatic telephonic timer. 3,184,551, 5-18-65, Cl. 179-7.1.
Curtis, Joseph A., Jr. Viewing device. 3,203,052, 8-31-65, Cl. 20-39.
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Gross, Clarence E. 3,174,778.
Curtis, Myron S., H. Schoepe, and E. J. Fisk, to Warner & Swasey Co. Automatic thread cutting machine. 3,191,467, 6-29-65, Cl. 82-5.
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Curtis, Ralston: See—
Tilles, Harry, and Curtis. 3,198,786.
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Curtis, Roger C.: See—
Jones, Lloyd R., Curtis, and Shorb. 3,171,902.
Curtis, Roger C., to Dictaphone Corp. Indicator light and control circuit. 3,205,315, 9-7-65, Cl. 179-100.1.
Curtis, Rolando T., to V-W Corp. Wall board having compressible edge structure. 3,226,284, 12-28-65, Cl. 161-44.
Curtis, Roman, and E. J. Thirkill, to United States of America, Navy. Retrofit lugs for bombs. 3,224,334, 12-21-65, Cl. 89-1.5.
Curtis, Russell R., to Curtis Dyna-Products Corp. Fluid operated spraying device having non-rigid follower and metering valve. 3,184,113, 5-18-65, Cl. 222-386.5.
Curtis, S., and Son Inc.: See—
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Curtis, Thomas E., and M. A. Gebhardt, to A. B. Chance Co. Load break switch gear. 3,226,499, 12-28-65, Cl. 200-48.
Curtis, Wilfred A., and J. F. Keating. Bird feeder. 3,164,130, 1-5-65, Cl. 119-51.
Curtiss, Alan C., to Polaroid Corp. Photographic illumination apparatus. 3,185,055, 5-25-65, Cl. 95-11.
Curtiss, Alan C., to Polaroid Corp. Photographic flashgun. 3,213,774, 10-26-65, Cl. 95-11.
Curtiss, Howard A.: See—
Zisfein, Melvin B., Curtiss, and Martin. 3,212,515.
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Bates, William E. 3,205,288.
Baxter, Donald J. 3,185,248.
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Bentele, Max. 3,180,562.
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Tomko, Donald R. 3,193,066.
Vogt, Richard. 3,224,370.
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Curwen, Peter D., to Mechanical Technology Inc. Active vibration isolator. 3,216,679, 11-9-65, Cl. 248-20.
Curzon, Thomas, to C.A.V. Ltd. Valve device for aiding the starting of internal combustion engines. 3,178,149, 4-13-65, Cl. 251-11.
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Cushing, Vincent J., and W. A. Beaudry, to United States of America, Navy. Missile stabilizing means. 3,185,097, 5-25-65, Cl. 102-50.
Cushing, Walter V., to Westinghouse Electric Corp. Method for fabricating discharge device. 3,218,113, 11-16-65, Cl. 316-25.
Cushion Coupler Corp.: See—
Ciejan, Deodat. 3,176,857.
Cushman Chuck Co., The: See—
Goodrum, Richard B. 3,166,336.
Cushman Industries, Inc.: See—
Goodrum, Richard B. 3,198,533.
Skillin, Walter F. 3,193,532.
Cushman, Le Roy T. Signal generator. 3,199,047, 8-3-65, Cl. 331-40.
Cushman, Paul A.: See—
Patton, Timothy E., and Cushman. 3,226,468.
Cushman, Walton W. Non-mechanical tie-down means for inflatable tents or shelters. 3,170,472, 2-23-65, Cl. 135-1.
Cushman, Wilhela. Cushion type mop with disposable cover. 3,166,775, 1-26-65, Cl. 15-228.
Cushner, Stanton H., to Thompson Ramo Wooldridge Inc. Microwave transmissive optical radiation reflectors. 3,165,749, 1-12-65, Cl. 343-911.
Cusi, Dante S. Communiting method and apparatus. 3,187,385, 6-8-65, Cl. 19-8.
Cusic, John W., and C. H. Lovell, to G. D. Searle & Co. Hydrazides of xanthencarboxylic acid and Thioxanthencarboxylic acid. 3,164,606, 1-5-65, Cl. 260-326.3.
Cusic, John W., and P. Yonan, to G. D. Searle & Co. 1-amino-4-dibenzocycloheptenylpiperazines. 3,168,523, 2-2-65, Cl. 260-268.
Cusic, John W., and E. F. Le Von, to G. D. Searle & Co. Aromatic and aliphatic hydrazone derivatives of 1-amino-4-diphenylalkylpiperazines. 3,178,422, 4-13-65, Cl. 260-240.
Cusic, John W., and E. F. Le Von, to G. D. Searle & Co. Hydrazones derived from 1-amino-4-diphenylalkylpiperazines and heterocyclic aldehydes and ketones. 3,183,229, 5-11-65, Cl. 260-240.
Cusic, John W., and H. W. Sause, to G. D. Searle & Co. 4-dipropylamino-2-pyridylalkanamides. 3,225,054, 12-21-65, Cl. 260-295.
Custer, Donald J., and A. L. Long, said Long assor. to said Custer. Shaft extension plug for pipes. 3,173,449, 3-16-65, Cl. 138-93.
Custer, James, to Burroughs Corp. Insertion and extraction tool. 3,193,316, 7-6-65, Cl. 294-33.
Custer, Robert E., and M. V. Shaw, to General Motors Co. Signal lamp for a battery charging circuit. 3,217,311, 11-9-65, Cl. 340-249.
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Cutler, Albert E., to Communications Patents Ltd. Signal transmission electric cables. 3,209,064, 9-28-65, Cl. 174-36.
Cutler, Albert E., to Communications Patents Ltd. Ground-based flight training or simulating apparatus. 3,220,121, 11-30-65, Cl. 35-12.
Cutler, Burton, to International Telephone and Telegraph Corp. Radar system with improved area type moving target indicator. 3,196,434, 7-20-65, Cl. 343-7.7.
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- Battle, Frederick H., Jr. 3,189,905.
- Battle, Frederick H., Jr., and Tatz. 3,191,175.
- Brown, Harry W. 3,196,220.
- Byrnes, Richard J., Richter, Spink, and Swinehart. 3,197,658.
- Byrnes, Richard J., and Weiss. 3,188,529.
- Carlson, Elmer T. 3,196,294.
- Carter, Uriel F., and Kolb. 3,196,227.
- Charlwood, Reginald E., and Fath. 3,195,456.
- Dennison, William G. 3,184,574.
- Dries, Jerome F. 3,183,409.
- Elliot, William H. 3,193,710.
- Fath, Douglas W., Fischer, and Siebers. 3,191,530.
- Fath, Douglas W., Kleewein, and Lutsch. 3,202,317.
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- Flattau, Theodore. 3,196,283.
- Hallden, Frederick C., Conover, Farkas, and Curtis. 3,225,332.
- Hodge, Donald R., Janicki, and Meidel. 3,224,045.
- Horne, Fred S., Jr. 3,197,688.
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- Iglehart, Marion M. 3,223,367.
- Keen, Henry S. 3,188,588.
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- Kintner, Paul M. 3,189,755.
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- Koenig, Martin F. 3,164,752.
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- Koenig, Martin F., Pastene, and Williams. 3,214,535.
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- Kuhn, Clarence W., and Smith. 3,207,868.
- Lowman, Roderic V. 3,189,820.
- Okwit, Seymour. 3,200,353.
- Okwit, Seymour, and Grace. 3,169,196.
- Pell, Eric. 3,179,930.
- Piber, Earl T. 3,182,352.
- Ranson, Richard R. 3,204,169.
- Ranenbuehler, John A., and Trumble. 3,207,018.
- Reed, Reginald A. 3,184,239.
- Rice, William G., and Rusenko. 3,179,759.
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- Stone, Norman L., and Cavallari, Jr. 3,199,025.
- Tatz, Abraham. 3,189,904.
- Thomas, Robert D. 3,194,898.
- Waldorf, Joseph F. 3,180,961.
- White, Warren D., and Sawyer. 3,167,709.
- Wilson, Wendell E. 3,214,003.
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- Cutler Laboratories, Inc.: See—
- Beacham, Robert C. 3,195,228.
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- Cutler, Mac C., to Filters, Inc. Filter element end cap. 3,186,552, 6-1-65, Cl. 210-457.
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- Hutelmeyer, Joseph V. 3,223,118.
- Cutler, Morris, and B. J. Tamarin; said Cutler assor. to said Tamarin. Packaging. 3,166,233, 1-19-65, Cl. 229-51.
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- Cutler, Royal A., and J. S. Buck, deceased (by P. G. Buck, executrix), to Sterling Drug Inc. Substituted 5-indancarboxylic acids and esters. 3,207,779, 9-21-65, Cl. 260-473.
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- Cuttat, Francois. Mnemotechnic device and method of operation thereof. 3,190,013, 6-22-65, Cl. 35-35.
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- Hink, John H., Jr., and McDonald. 3,168,447.
- Lund, Lloyd J. 3,178,350.
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- Wendelken, Gerard J. 3,222,005.
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- Cvacho, Daniel S., and J. R. L. Moller, to Reynolds Metals Co. Production of containers by formation of slits and holes in strip material. 3,215,107, 11-2-65, Cl. 113-120.
- Cvacho, Daniel S., and W. C. Whitaker, to Reynolds Metals Co. Method of and apparatus for splicing web material. 3,223,061, 12-14-65, Cl. 113-120.
- Cvetko, Henry J., and M. M. Palo, to The Astatic Corp. Stereophonic piezoelectric pickup cartridge. 3,215,753, 11-2-65, Cl. 179-100.41.
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- Cyba, Henryk A., to Universal Oil Products Co. Stabilization of lubricants. 3,208,944, 9-28-65, Cl. 252-51.5.
- Cyba, Henryk A., to Universal Oil Products Co. Stabilization of lubricants. 3,216,939, 11-9-65, Cl. 252-50.
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- Cypher, James H., and C. E. Valchar, to Pittsburgh Plate Glass Co. Method of bending glass sheets. 3,223,504, 12-14-65, Cl. 65-106.
- Cypher, James J., and C. R. Davidson, Jr., to Pittsburgh Plate Glass Co. Method of treating and conveying glass sheets. 3,223,499, 12-14-65, Cl. 65-25.
- Cyphers, Elmer B., R. F. Neblett, and C. S. Lynch, to Esso Research and Engineering Co. Colloidal molybdenum complexes and their preparation. 3,223,625, 12-14-65, Cl. 252-18.
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- Czerch, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Stable concentrates of organic phosphorus insecticides. 3,205,131, 9-7-65, Cl. 167-42.
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- Dadamo, Richard J., and W. M. Hennessey, to Burroughs Corp. Magnetic core memories. 3,210,745, 10-5-65, Cl. 340-174.
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- Daddona, Domenic J., Jr., to Scovill Mfg. Co. Snap fastener. 3,193,200, 7-20-65, Cl. 24-208.
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- Greene, William J., and Daggett. 3,199,016.
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- Dagle, Glenn C., J. L. Vala, and R. D'Hondt. Mail carrier for a pneumatic system. 3,201,064, 8-17-65, Cl. 243-35.
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- Norwood, Donald D., and Dagley. 3,189,592.
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- Daguier, Maurice. Heat-treatment process for metallic and other products. 3,167,459, 1-26-65, Cl. 148-13.1.
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- Dahl, Edward T., to George W. Dahl Co., Inc. Valve assembly for supplying and venting pressure fluid. 3,182,678, 5-11-65, Cl. 137-102.
- Dahl, Edwin G. Gun recoil, flash and sound reducer assembly. 3,164,060, 1-5-65, Cl. 89-14.
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- Dahl, Henry: See—
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- Dahl, Walter L., to E. I. du Pont de Nemours and Co. Explosive release ignition assembly. 3,188,914, 6-15-65, Cl. 89-1.
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- Dahlberg, Reinhard, to Clevite Corp. Method and means for contacting and mounting semi-conductor devices. 3,200,468, 8-17-65, Cl. 29-25.3.
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- Dahlin, Carl E. I., to von Tell Trading Co. AB. Device for stowing hatch covers on ships. 3,185,206, 5-25-65, Cl. 160-193.
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- Dalgle, Ralph, to My-T-Veyor Corp. Conveyor track and drive assembly. 3,179,452, 4-20-65, Cl. 287-103.
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- Damerell, Vivian R., to The Warren Refining and Chemical Co. Method of preparing an aluminum oxide gel and lubricating compositions thereof. 3,174,930, 3-23-65, Cl. 252-25.
- Dameron, Frank E.: See—
- Gardner, Donald B., and Dameron. 3,202,356.
- Dameron, Robert O.: See—
- De Corte, Michael A., Dameron, and Zundel. 3,215,156.
- Dames, Carl W., Jr., to Polymer Processes, Inc. Roll covers. 3,184,828, 5-25-65, Cl. 29-129.
- Dames, Carl W., Jr., and R. W. Boyer, to Polymer Processes, Inc. Method of molding lactams in a polysiloxane mold. 3,222,443, 12-7-65, Cl. 264-313.
- Dames, Hans-Joachim. Machine for peeling produce. 3,186,457, 6-1-65, Cl. 146-43.
- Damgen, Wilhelm: See—
- Rumberg, Alfred, Krauss, Rittershausen, Damgen, and Fruhling. 3,222,445.
- Damico, Frank A., and R. T. Norton, to Western Electric Co., Inc. Liquid level indicator. 3,200,389, 8-10-65, Cl. 340-244.
- D'Amico, John. Hair thinner attachment having certain teeth spaced from the cutting edge of a blade. 3,180,026, 4-27-65, Cl. 30-30.
- D'Amico, John J.: See—
- Hamm, Philip C., and D'Amico. 3,224,864.
- Zerbe, Richard O., and D'Amico. 3,224,866.
- D'Amico, John J., to Monsanto Co. (Azabicyclononylthio) azoles. 3,187,000, 6-1-65, Cl. 260-302.
- D'Amico, John J., to Monsanto Co. Controlling undesired vegetation with benzyl hexamethylenimine carbothioates. 3,224,861, 12-21-65, Cl. 71-2.5.
- D'Amico, John J., to Monsanto Co. Certain thiazolo[3,2-a] benzimidazoles and their production. 3,225,059, 12-21-65, Cl. 260-306.8.
- D'Amico, John J., and M. W. Harman, to Monsanto Co. Manufacture of thiolcarbamates. 3,167,571, 1-26-65, Cl. 260-455.
- D'Amico, John J., to Monsanto Co. Destroying vegetation with 4-nitro-5-piperazine-thiocarbonylates. 3,198,621, 8-3-65, Cl. 71-2.5.
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- D'Amico, John J., and C. C. Tung, to Monsanto Co. 6-(1,2,3,4-tetrahydro-2-thioxo-4,4,6-trimethyl-1-pyrimidinyl)-benzothiazolylthiocarbamates. 3,225,040, 12-21-65, Cl. 260-247.1.
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- Damjanaitis, Kestutis, and H. T. Hodges, to The Stanley Works. Mortise template assembly. 3,206,861, 9-21-65, Cl. 33-197.
- Damitz, Clyde O., to Ford Motor Co. Curved propeller shaft rotatably supported on a sealed plastic housing containing a lubricant. 3,181,642, 5-4-65, Cl. 180-70.
- Damm, Carl A., to United States of America, Navy. Connector aligning device. 3,183,777, 5-18-65, Cl. 89-1.5.
- Damm, Eugene P., Jr., to International Business Machines Corp. Method of coating finely divided metal particles. 3,185,589, 5-25-65, Cl. 117-100.

- Damm, Klaus, and H.-E. Gottgens, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of siloxane-coated separating paper. 3,194,680, 7-13-65, Cl. 117-155.
- Damm, Raymon H., to Poesis Machine Corp. Wire tensioning apparatus. 3,164,335, 1-6-65, Cl. 242-147.
- Dammer, August, and W. Breuling, to Rheinmetall Hüttenwerke AG. Manufacture of steel. 3,199,976, 8-10-65, Cl. 75-59.
- Dammicci, James: See—
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- Millson, Henry E., Glaeser, and Dammicci. 3,179,483.
- Dammicci, James, to American Cyanamid Co. Propylene dyeing method. 3,179,486, 4-20-65, Cl. 8-115.5.
- Damon, Glenn H., J. Rihovich, and J. A. Herickes, to United States of America, Navy. Method of fuel unit assembly. 3,185,018, 5-25-65, Cl. 86-20.
- Damon, James J., to Ford Motor Co. Hydraulic plunger type shock absorber having separate bounce and rebound passages. 3,181,656, 5-25-65, Cl. 188-88.
- Damon, James J., to Ford Motor Co. Hydraulic shock absorber having external bounce and rebound passages. 3,213,973, 10-26-65, Cl. 188-97.
- Damon, Lloyd E., to Olin Mathieson Chemical Corp. Welding apparatus. 3,201,561, 8-17-65, Cl. 219-125.
- Damon, Ralph S.: See—
- Hunter, Robert H., and Damon. 3,173,467.
- Damon, Roger H., Jr., to Fairbanks Morse Inc. Transducer mounting in weighing apparatus. 3,224,520, 12-21-65, Cl. 177-210.
- Damon, Roger H., Jr., and J. C. Merrill, deceased, by B. C. Merrill, administratrix, to Fairbanks Morse Inc. Recorder mechanism control. 3,180,573, 4-27-65, Cl. 235-61.
- Damon, Wayne E., to General Motors Corp. Controllable frequency magnetically coupled multivibrator. 3,223,945, 12-14-65, Cl. 331-113.
- Da Moude, Homer H. Modulator shaper for frequency shift transmitter. 3,197,705, 7-27-65, Cl. 325-163.
- Dampster, James W., C. R. Cooley, and S. C. Voorhees, to Dempster Bros., Inc. Apparatus for handling containers. 3,175,718, 3-30-65, Cl. 214-516.
- Damrath, John G.: See—
- McBee, Earl T., and Damrath. 3,206,495.
- Damron, William M., to Lehn & Fink Products Corp. Mixing device. 3,204,283, 9-7-65, Cl. 15-510.
- Damsz, George J., to North American Phillips Co., Inc. Cool-down time of installation incorporating stirring cycle refrigerator. 3,220,200, 11-30-65, Cl. 62-6.
- Damsz, Jerzy G., to North American Phillips Co., Inc. Apparatus for the automatic transfer of cryogenic liquid from a cold source to a storage vessel. 3,206,938, 9-21-65, Cl. 62-55.
- Dana Corp.: See—
- Hermanns, Martin J. 3,182,443.
- Holzman, James W. 3,197,231.
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- Lyons, James M. 3,178,907.
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- Smith, Paul J. 3,176,811.
- Wojcikowski, Richard J. 3,205,836.
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- Dana Laboratories, Inc.: See—
- Braymer, Noel B., and Engle. 3,189,840.
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- Danal Jewelry Co.: See—
- Triangolo, Daniel A. 3,201,952.
- Danberg, Victor. Material applying apparatus. 3,201,047, 8-17-65, Cl. 239-336.
- Danbert Chemical Co.: See—
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- Dancer, Stuart N., to The Distillers Co. Ltd. Purification of butadiene by oxidation to remove acetylene. 3,202,727, 8-24-65, Cl. 26-681.5.
- Dancy, William B. Solution mining system using heat exchange tubes. 3,205,012, 9-7-65, Cl. 299-4.
- D'Andrea, A. Ralph: See—
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- Fried, Louis, and D'Andrea. 3,195,764.
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- Danehy, Aloysius L. Fastener. 3,171,182, 3-2-65, Cl. 24-221.
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- Danek, August J., A. E. Visin, and T. M. Clune, to Controls Co. of America. Timer. 3,214,983, 11-2-65, Cl. 74-54.
- Danel, Pierre F., to Societe Grenobloise d'Etudes et d'Applications Hydrauliques. Pressure controllers. 3,177,895, 4-18-65, Cl. 137-514.5.
- Daneman, Ben, to Central Engineering Co., Inc. Street cleaning apparatus. 3,189,932, 6-22-65, Cl. 15-340.
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- Danesi, Caesar M.: See—
- Lawrance, Harold R., and Danesi. 3,178,891.
- Danesi, Paul P., to International Telephone and Telegraph Corp. Electrical plugs. 3,204,215, 8-31-65, Cl. 339-103.
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- Danforth, Donald W., to John W. Bolton & Sons, Inc. Free-ness testing apparatus and method. 3,186,215, 6-1-65, Cl. 73-63.
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- Danforth, John P.: See—
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- Danford, Tiras J., to Harrington Mfg. Co., Inc. Hitch structure for mounting a rotary mower laterally offset to one side of a tractor. 3,197,948, 8-3-65, Cl. 56-25.4.
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- Bachmann, Paul A. 3,189,256.
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- Kjeldsen, Kjeld. 3,187,995.
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- Sorensen, Carl, and Nielsen. 3,189,275.
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- Valbjorn, Knud V. 3,187,994.
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- Dangauthier, Marcel, to Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilières Inter-Technique. Automobile vehicle suspension. 3,201,142, 8-17-65, Cl. 280-106.5.
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- Dangauthier, Marcel, to La Publicite Francaise. System for cooling the engine of a motor vehicle and heating the air of the vehicle. 3,221,720, 12-7-65, Cl. 123-41.09.
- Danhier, Francois G., to La Soudure Electrique Autogene, S.A. Process and apparatus for joining steel work by automatic and semi-automatic electric arc welding. 3,171,013, 2-23-65, Cl. 219-137.
- Danhier, Francois G., to La Soudure Electrique Autogene, S.A. Flux-cored electrode and process of welding. 3,177,340, 4-6-65, Cl. 219-146.
- Danhier, Francois G., to La Soudure Electrique Autogene, S.A. Welding rod and electrode. 3,193,661, 7-6-65, Cl. 219-146.
- Danhier, Francois G., to La Soudure Electrique Autogene, S.A. Process and apparatus for electric fusion welding. 3,200,232, 8-10-65, Cl. 219-73.
- Daniel, David W.: See—
- Anthony, Russel W., Mentley, and Daniel. 3,220,811.
- Daniel, Elbert H., C. C. Akers, N. W. Mitchell, and S. E. Forsyth, to Phillips Petroleum Co. Catalytic process for cracking oils containing metallic contaminants. 3,190,828, 6-22-65, Cl. 208-78.
- Daniel, Ernest L., and P. Nador, to Northern Electric Co. Ltd. Multiple-circuit connecting device. 3,178,670, 4-13-65, Cl. 339-65.
- Daniel, Francis L. Musical instruments. 3,196,730, 7-27-65, Cl. 84-293.
- Daniel, George I. Combination scaffold and ladder. 3,190,390, 6-22-65, Cl. 182-1.
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- Daniel, Harold C., and W. F. Southard. Work clamping device. 3,172,654, 3-9-65, Cl. 269-93.
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- Koral, Jerry N., Bruner, and Daniel. 3,218,280.

- Daniel Office Fitting Co.: See—
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- Daniel, Richard E., to Hoffman Electronics Corp. Frequency shift converter mark restorer circuit. 3,164,773, 1-5-65, Cl. 325-320.
- Daniel, Robert L.: See—
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- Daniel, William H. Sewage treatment apparatus. 3,204,768, 9-7-65, Cl. 210-197.
- Daniele, Donald T., and E. C. Witt, Jr., to Diamond National Corp. Pulp molding machine. 3,166,468, 1-19-65, Cl. 162-392.
- Danilewicz, Stanley F. Fishing pole holder. 3,204,899, 9-7-65, Cl. 248-46.
- Daniell, Henrik, and E. Monestam. Exchanging machine for control rod assembly in a nuclear reactor. 3,186,915, 6-1-65, Cl. 176-33.
- Daniels, Alvin E., and A. S. Swanson, to G. H. Tennant Co. Scrubbing device. 3,206,787, 9-21-65, Cl. 15-320.
- Daniels, Carl W., to Arco Corp. Rotatable multiple-lead electrical connector. 3,193,636, 7-6-65, Cl. 200-51.12.
- Daniels, Charles J., and D. B. Doolittle, to All American Engineering Co. Programmed arrest gear tape. 3,172,504, 8-9-65, Cl. 138-90.
- Daniels, Charles K., to Laboratory for Electronics, Inc. Vehicle detection and counting system. 3,182,312, 5-4-65, Cl. 343-7.
- Daniels, Dennis, to Houdaille Industries, Inc. Punching apparatus. 3,176,569, 4-6-65, Cl. 83-559.
- Daniels, Dennis, to Houdaille Industries, Inc. Clamping mechanism. 3,176,973, 4-6-65, Cl. 269-153.
- Daniels, Dennis, to Houdaille Industries, Inc. Work support. 3,181,858, 5-4-65, Cl. 269-296.
- Daniels, Dennis, to Houdaille Industries, Inc. Workpiece alignment structure. 3,187,615, 6-8-65, Cl. 83-413.
- Daniels, Dennis, to Houdaille Industries, Inc. Punching machine having tool ejector. 3,195,386, 7-20-65, Cl. 83-162.
- Daniels, Dennis, to Houdaille Industries, Inc. Switch interlock structure. 3,209,634, 10-5-65, Cl. 83-399.
- Daniels, Dennis, to Houdaille Industries, Inc. Fluid coupling with variable flow restricting means. 3,209,786, 10-5-65, Cl. 138-43.
- Daniels, Dennis, to Houdaille Industries, Inc. Fluid-actuated positioning means. 3,218,934, 11-23-65, Cl. 91-167.
- Daniels, Edward G., and J. W. Hinman, to The Upjohn Co. Process for preparation of kidney extracts. 3,172,813, 8-9-65, Cl. 167-74.6.
- Daniels, Franc P., Jr. Tree baling machine with excavating means comprising a downward pressure component and a horizontally rocking component. 3,210,867, 10-12-65, Cl. 37-2.
- Daniels, Franklin W., to General Electric Co. Electrical capacitor with thermal fuse. 3,225,276, 12-21-65, Cl. 317-256.
- Daniels, Gordon E. Earth Scraper. 3,221,423, 12-7-65, Cl. 37-126.
- Daniels, Howard L., and D. K. Sampson, to Sperry Rand Corp. Magnetic disc file positional information apparatus. 3,212,074, 10-12-65, Cl. 340-174.1.
- Daniels, Humphrey B., to Transatlantic Plastics Ltd. Clip for flexible sheet. 3,225,407, 12-28-65, Cl. 24-243.
- Daniels, Joseph, to Koppers Co., Inc. Apparatus for removal by means of sluices of the gasification residues from spaces prevailing under increased pressure. 3,175,566, 3-30-65, Cl. 134-166.
- Daniels, Joseph, to Koppers Co. Inc. Apparatus for repulverizing a compressed plug. 3,182,920, 5-11-65, Cl. 241-282.
- Daniels, Paul J., to The Bastian-Blessing Co. Beverage dispenser. 3,171,571, 3-2-65, Cl. 222-94.
- Daniels, Rupert S., and B. P. Barth, to Union Carbide Corp. Epoxy resin abrasive structures and method therefor. 3,226,214, 12-28-65, Cl. 51-298.
- Daniels, Russell W.: See—
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- Daniels, Thaddeus E., and J. R. Hacker, to United States of America, Navy. Shielded electrical connector. 3,171,706, 3-2-65, Cl. 339-143.
- Daniels, Walter. Door frame and brace therefor. 3,166,164, 1-19-65, Cl. 189-46.
- Daniels, Wiley E., to General Aniline & Film Corp. Process for producing a solid crystalline stable complex of bromine and 2-pyrrolidone. 3,174,980, 3-23-65, Cl. 260-326.5.
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- Danielson, Berne: See—
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- Danielson, Donn D.: See—
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- Danielson, Vernon S., to Standard Car Truck Co. Draft gear rigging. 3,166,200, 1-19-65, Cl. 213-8.
- Danielson, Vernon S., to Standard Car Truck Co. Draft gear rigging for railroad cars. 3,193,111, 7-6-65, Cl. 213-8.
- Danielson, Warren E.: See—
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- Danielson, Warren R.: See—
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- Daniloff, Michael, to Raytheon Co. Programmed flight computers. 3,177,348, 4-6-65, Cl. 235-151.
- Daniloff, Michael, to Raytheon Co. Damping stabilizer devices. 3,195,811, 7-20-65, Cl. 235-61.
- Daniluk, Syl, and A. Reilingh, to McInnis Conveyors Ltd. Endless belt conveyors. 3,217,861, 11-16-65, Cl. 198-182.
- Danker, Otto J., to TRW Inc. Fuel filtration system. 3,214,020, 10-26-65, Cl. 210-108.
- Dankert, Gerhard, and H. Holtschmidt, to Farbenfabriken Bayer Aktiengesellschaft. Polysulfide polyurethanes. 3,169,119, 2-9-65, Cl. 260-2.5.
- Danko, Donald M., to National Rejectors, Inc. Currency detectors. 3,180,491, 4-27-65, Cl. 209-111.5.
- Danko, Donald M., to National Rejectors, Inc. Currency detectors. 3,223,988, 12-14-65, Cl. 340-174.1.
- Danko, Emery A.: See—
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- Danko, George K., to General Electric Co. Electric lamp with unitary inner envelope and stem assembly and manufacture thereof. 3,194,625, 7-13-65, Cl. 316-20.
- Danko, John A.: See—
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- Danko, Joseph C., and P. J. McCoy, to Westinghouse Electric Corp. Combined thermionic-thermoelectric converter. 3,189,765, 6-15-65, Cl. 310-4.
- Danko, Joseph C., S. N. Tower, and G. L. Thomas, to Westinghouse Electric Corp. Thermoelectric nuclear fuel elements. 3,214,295, 10-26-65, Cl. 136-4.
- Dankoff, Joseph, and R. G. Greene. Metering and dispensing device. 3,179,303, 4-20-65, Cl. 222-248.
- Danly, Donald E.: See—
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- Danly, James C., to Danly Machine Specialties, Inc. Control arrangement for automatic press line. 3,199,439, 8-10-65, Cl. 100-43.
- Danly, James C., to Danly Machine Specialties, Inc. Automatic transfer mechanism for press line. 3,199,443, 8-10-65, Cl. 100-207.
- Danly, James C., to Danly Machine Specialties, Inc. Quick die changing mechanism. 3,207,065, 9-21-65, Cl. 100-229.
- Danly, James C., to Danly Machine Specialties, Inc. Die post construction. 3,219,371, 11-23-65, Cl. 287-20.
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- Dann, Anthony E.: See—
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- Dann, John R., P. P. Chiesa, and W. G. Lovett, to Eastman Kodak Co. Diesters of saturated aliphatic dicarboxylic acids containing both oxygen and sulphur in the chain. 3,194,830, 7-13-65, Cl. 260-481.
- Dann, Murray: See—
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- Dannat, Heinz. Hair curler with reciprocating hair clamping members. 3,209,766, 10-5-65, Cl. 132-40.
- Dannebaum, Rex P. Pen tip automatic retraction. 3,181,507, 5-4-65, Cl. 120-42.03.
- Dannelly, Clarence C.: See—
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- Dannenber, Rudi H. G. Collapsible cabinet for radio and television receivers and like purposes. 3,194,619, 7-13-65, Cl. 312-7.
- Dannenmann, Paul, to G. Banknecht G.m.b.H. Means for introducing a detergent into washing machines. 3,207,373, 9-21-65, Cl. 222-70.
- Danner, Jacob D., to Argus Inc. Transparent slide projector. 3,173,331, 3-16-65, Cl. 88-28.
- Danner, Jacob D., to Argus Inc. Projector and transparent slide storage magazine therefor. 3,218,744, 11-23-65, Cl. 40-79.
- Dannis, Mark L., to The B. F. Goodrich Co. Apparatus for tensile testing materials at rapid rates of load application. 3,196,671, 7-27-65, Cl. 73-95.
- Dano Ingeniørforretning og Maskinfabrik. Ingeniør Kai Peterson's Fond: See—
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- Dano, Louis, and R. Vigule, to Commissariat a l'Energie Atomique. Interchangeable chassis slides for carrying electronic equipment. 3,191,097, 6-22-65, Cl. 317-101.
- Danon, David. Microtome. 3,191,477, 6-29-65, Cl. 83-267.
- Danon, Jeanne S.: See—
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- Danowitz, Charles A. Perch for bird cage. 3,200,789, 8-17-65, Cl. 119-25.
- Dan River Mills, Inc.: See—
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- Sulter, Roger N. 3,215,488.
- Dansk Svejsecentral: See—
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- D'Antini, Pasquale I. Safety cushion for vehicles. 3,172,683, 3-9-65, Cl. 280-150.
- Danzig, Henry P., A. W. Moeller, and E. G. Shelor, Jr., to The Bendix Corp. Variable polarization for microwaves. 3,215,957, 11-2-65, Cl. 333-21.
- Danyluke, Ostap, to Bath Iron Works Corp. Bowl for centrifugal pulverizer. 3,180,582, 4-27-65, Cl. 241-275.
- Danziger, Harry, and K. Haeseler, to Farbenfabriken Bayer Aktiengesellschaft. Process for the continuous production of tri- and poly-basic alcohols. 3,201,480, 8-17-65, Cl. 260-635.
- Danziger, Harry, and A. Kersting, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of diphenylamine. 3,205,265, 9-7-65, Cl. 260-576.
- Danziger, William, C. D. Rush, and J. Gold. Hot beverage processing machine. 3,166,002, 1-19-65, Cl. 99-289.
- Daphe A.G. Firma: See—
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- D'Aquin, Esler L. Process for softening the shell portions of crustaceans for edible purposes. 3,222,186, 12-7-65, Cl. 99-111.
- D'Aquila, Joseph A., to United Aircraft Corp. Converter. 3,167,757, 1-26-65, Cl. 340-347.
- Darack, Oscar C., to Precision Thermometer and Instrument Co. Temperature sensitive control equipment including thermometer with spaced contact terminals controlling switch means enclosed in housing. 3,196,286, 7-20-65, Cl. 307-88.5.
- Darandik, Wilhelm, to Kettma Hamburger Kettelmashinenfabrik Erich Hahn K.G. Operating arrangement for circular linking machine. 3,219,003, 11-23-65, Cl. 112-25.
- Daras, Nestor, and A. Ryckaert, to Solvay & Cie. Process for the treatment of chlorinated hydrocarbons. 3,209,040, 9-28-65, Cl. 260-654.
- Darby, Joseph R.: See—
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- Darby, Joseph R., to Monsanto Co. Plastic floor coverings containing vinyl chloride resins plasticized with benzyl phthalates. 3,211,689, 10-12-65, Cl. 260-31.4.
- Darby, Paul F.: See—
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- Darby, Robert A., to Fairchild Hiller Corp. Jet wing and jet flap system. 3,172,620, 3-9-65, Cl. 254-42.
- Darby, Robert J., J. F. Nemecsek, S. G. Granger, and C. H. Brainerd, to Trans World Airlines, Inc. Automatic aircraft throttle control apparatus. 3,199,811, 8-10-65, Cl. 244-76.
- Darby, Ronald A., F. P. Hodges, and W. L. Letsch, to United States of America, Navy. Radiation level indicator for sonar projectors. 3,167,150, 1-26-65, Cl. 181-5.
- Darcy, H. P.: See—
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- Darcy, Harris B., to H. P. Darcy. Combined skill and chance game device. 3,173,690, 3-16-65, Cl. 273-97.
- Dardaine, Edgar J. M., to E. P. Remy & Cie. Gripping head for articles disposed in rows. 3,174,791, 3-23-65, Cl. 294-87.24.
- Dardaine, Edgar J. M., to E. P. Remy & Cie. Variable-pitch gripping device. 3,186,751, 6-1-65, Cl. 294-87.26.
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- Dardaine, Edgar J. M., and R. Malbeaux, to E. P. Remy & Cie. Machine for handling objects. 3,185,328, 5-25-65, Cl. 214-309.
- Darden, Robert R., Jr., and A. G. Dobbs, to American Bosch Arma Corp. Diode modulator with distortion-reducing circuit. 3,196,369, 7-20-65, Cl. 332-43.
- Dardig, Ben V., to United Dynamics Corp. Method of finishing shoe heels. 3,172,136, 3-9-65, Cl. 12-147.
- Dare, Eddie A. Saw guide and gauge tool. 3,202,418, 8-24-65, Cl. 269-290.
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- Wilson, Robert M. 3,208,586.
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- Dark, John W. Monorail systems. 3,198,139, 8-3-65, Cl. 105-145.
- Darke, Andrew J., to North American Refractories Co. Hanger construction for refractory roof. 3,181,487, 5-4-65, Cl. 110-99.
- Darland, William G., Jr.: See—
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- Darling, Clifford N. Canned food chopping and removing device. 3,189,070, 6-15-65, Cl. 146-61.
- Darling, Horace E., to The Foxboro Co. High power process control apparatus. 3,180,974, 4-27-65, Cl. 219-497.
- Darling, Horace E., and H. E. Harris, to Harrel, Inc. Semiconductor controlled rectifier circuits. 3,204,172, 8-31-65, Cl. 321-8.
- Darling, Jerome P., to Ledex, Inc. Torque coupling. 3,206,236, 9-14-65, Cl. 287-52.05.
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- Darlow, Brian S., to Taylor Electric Mfg. Co. Distributing panel. 3,172,015, 3-2-65, Cl. 317-119.
- Darlow, Brian S., to Taylor Electric Mfg. Co., Ltd. Tie bar for circuit breaker handles. 3,183,320, 5-11-65, Cl. 200-50.
- Darnell, Rex C., to Michigan-Dynamics, Inc. Contaminant extracting boost pump. 3,178,105, 4-13-65, Cl. 232-7.
- Darnell, Rex C., to Michigan-Dynamics, Inc. Sub-atmospheric pressure indicator. 3,200,757, 8-17-65, Cl. 116-70.
- Darner, Frederic M., to Republic Steel Corp. Apparatus and process for producing perforated, corrugated, spiral, lock-seam pipe. 3,183,693, 5-18-65, Cl. 72-49.
- Daroff, H., & Sons, Inc.: See—
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- Darracq, Waldo J.: See—
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- Darrab, James G.: See—
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- Darrell, George H. Separable fastener. 3,182,372, 5-11-65, Cl. 24-230.
- D'Arrigo, Andrew A., to D'Arrigo Bros. Co. of California. Vegetable punching machine. 3,221,640, 12-7-65, Cl. 100-5.
- D'Arrigo Bros. Co. of California: See—
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- Dart Mfg. Co.: See—
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- Dart, William A., to Dart Mfg. Co. Method for forming thin wall cellular plastic containers. 3,178,491, 4-13-65, Cl. 264-53.
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- Dascher, Edward E. Method of coating metal foils with a polymerizable resinous coating. 3,215,558, 11-2-65, Cl. 117-230.
- Dash, Edward. Stud welding means and method. 3,182,172, 5-4-65, Cl. 219-98.
- Dash, Edward. Welding stud and ferrule construction for arc welding. 3,182,173, 5-4-65, Cl. 219-99.
- Dashew Business Machines, Inc.: See—
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- Humphrey, John H. 3,187,334.
- Da Silva, Julio A. Tool handle with retractable tool. 3,177,910, 4-13-65, Cl. 145-61.
- Dassler, Adolf. Sport shoes, especially for runners. 3,224,117, 12-21-65, Cl. 86-2.5.
- Dassler, Albert L., to Koehring Co. Hydraulic stabilizer. 3,175,698, 3-30-65, Cl. 212-145.
- Datagraphics Inc.: See—
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- Data-Link Corp.: See—
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Davidson, Glenn, by E. D. Davidson, executrix of said G. Davidson, deceased, to E. D. Davidson. Method of preparing a soya protein adhesive composition. 3,206,320, 9-14-65, Cl. 106-154.
Davidson, Glenn, by E. D. Davidson, executrix of said G. Davidson, deceased, to E. D. Davidson. "Long pot-life" soya flour/CS₂ glue substantially free of carbon disulfide thickening. 3,206,321, 9-14-65, Cl. 106-154.
Davidson, Isaac F. Holder and dispenser for collapsible tube. 3,203,596, 8-31-65, Cl. 222-103.
Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Helicopters. 3,211,398, 10-12-65, Cl. 244-17.19.
Davidson, James C., to Burroughs Corp. Capacitor timing network including Zener diode for regulating the voltage swing when capacitor charges and discharges. 3,173,025, 3-9-65, Cl. 307-88.5.
Davidson, James C., to Burroughs Corp. Electrical connector. 3,205,295, 9-7-65, Cl. 174-32.
Davidson, James C., to Burroughs Corp. Clock system for electronic computers. 3,226,648, 12-28-65, Cl. 328-63.
Davidson, James D. Reversible heel blocks. 3,178,240, 4-13-65, Cl. 308-3.
Davidson, James P., and E. A. Glassey, to Exactel Instrument Co. Density control instrument. 3,186,423, 6-1-65, Cl. 137-91.
Davidson, Jason M.: See—
Bracci, Delphio J., and Davidson. 3,221,968.
Davidson, Lawrence C., to United States of America, Navy. Pipe line hydrophone system. 3,225,858, 12-28-65, Cl. 181-5.
Davidson, Max T., and W. D. Ward, to B & H Associated Designers. Lathe stock catcher. 3,177,744, 4-13-65, Cl. 82-38.
Davidson, Per, to Sandvikens Jernverks, Aktiebolag. Method of making hot tops for ingot molds. Re. 25,905, 11-16-65, Cl. 22-193.
Davidson, Per, to Sandvikens Jernverks, Aktiebolag. Hot top casting for casting molds. Re. 25,915, 11-23-65, Cl. 249-197.
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Ednell, Daniel F., Edström, and Davidson. 3,178,783.
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Smuland, Robert J., and Davidson. 3,220,697.
Davidson, Raymond W., to Electronic Security Corp. Permutation switch with a pair of bus bars each having spaced apart integral spring fingers. 3,192,331, 6-29-65, Cl. 200-43.
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Duchene, Normand. 3,208,317.
Davidson, Robert W., to American Machine & Foundry Co. Cargo locking mechanism. 3,204,581, 9-7-65, Cl. 105-369.
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Hood, Bruce G. 3,175,863.
Moore, Donald A. 3,190,944.
Davidson, Trevor O., and W. P. Atkinson, to Bucyrus-Erie Co. Thermal piercing control. 3,207,238, 9-21-65, Cl. 175-14.
Davidson, William, L. A. Steer, and A. Perrin, to C.D. Patents Ltd. Combined space heating and domestic hot water heating system. 3,201,045, 8-17-65, Cl. 237-8.
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Davidson, William W., Jr., and L. Miaskoff, to Fairchild Camera and Instrument Corp. Conveyor board for printing press. 3,218,064, 11-16-65, Cl. 271-45.
Davidson, Tage A. Oil burner apparatus. 3,189,078, 6-15-65, Cl. 158-36.3.
Davies, Archibald, O. C. Schauble, deceased (M. R. Schauble, executrix). Furnace wall construction. 3,176,433, 4-6-65, Cl. 50-404.
Davies, Arthur: See—
Harper, Harold F., Lee, and Davies. 3,222,155.
Davies, Beaumont J., to George Richards & Co. Ltd. Producing a program control record. 3,193,833, 7-6-65, Cl. 346-8.
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Birch, Raymond E., King, and Davies. 3,216,838.
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Henry, George R., King, and Davies. 3,208,861.
McCreight, Donald O., Benky, and Davies. 3,164,483.
Davies, Ben, to Harbison-Walker Refractories Co. Refractory grade. 3,180,745, 4-27-65, Cl. 106-59.
Davies, Ben, to Harbison-Walker Refractories Co. Refractory structure and shapes therefor. 3,199,994, 8-10-65, Cl. 106-55.
Davies, Ben, and R. W. Woodruff, to Harbison-Walker Refractories Co. Method of fabricating hollow bodies at elevated temperatures. 3,164,895, 1-12-65, Cl. 29-423.
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Davies, Ben, and F. H. Walther, to Harbison-Walker Refractories Co. Refractory. 3,180,744, 4-27-65, Cl. 106-59.
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Davies, Ben, and P. H. Havranek, to Harbison-Walker Refractories Co. Fired basic refractory shapes. 3,194,672, 7-13-65, Cl. 106-59.
Davies, Ben, and O. M. Wicken, to Harbison-Walker Refractories Co. Firing of lime and dolomite shapes. 3,196,193, 7-20-65, Cl. 264-68.
Davies, Ben, and D. O. McCreight, to Harbison-Walker Refractories Co. Mortar. 3,208,862, 9-28-65, Cl. 106-66.
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Davies, David O., R. V. Blackhurst, and J. M. S. Keen, to Rolls-Royce Ltd. Compressor for a gas turbine engine. 3,219,263, 11-23-65, Cl. 230-122.

- Davies, Derec F. V., R. H. Buchanan, and D. Oedjoe, to Unisearch Ltd. Apparatus for hydraulically conveying discrete solids. 3,185,529, 5-25-65, Cl. 302-14.
- Davies, Edward R., G. L. Bowen, and R. W. Lemon, to Jered Industries, Inc. Multiple fluid operated clutches. 3,215,237, 11-2-65, Cl. 192-87.
- Davies, Eric, to The Marconi Co. Ltd. Television standards conversion apparatus having temporarily increased line scanning speeds. 3,196,207, 7-20-65, Cl. 178-6.8.
- Davies, Eric, to The Marconi Co. Ltd. Time base circuits with dynamic bias. 3,221,269, 11-30-65, Cl. 331-111.
- Davies, Eric, and A. N. Heightman, to The Marconi Co. Ltd. Television systems. 3,200,195, 8-10-65, Cl. 178-6.8.
- Davies, George, to H. A. Walford. Gas igniter. 3,183,958, 5-18-65, Cl. 158-115.
- Davies, Frederick E. Fastening mechanism for marble front of burial crypt. 3,213,576, 10-26-65, Cl. 52-134.
- Davies, George, and H. Wertheimer. Cinematograph apparatus. 3,216,778, 11-9-65, Cl. 352-129.
- Davies, Harold, to Thiokol Chemical Corp. Solid propellant grain. 3,188,802, 6-15-65, Cl. 60-35.6.
- Davies, Henry E.: See—
- Marton, Donald G. J., Stanwell, and Davies. 3,191,270.
- Davies, Howard W., and O. E. Jore, to Anaconda Wire and Cable Co. Cable splice insulator and cable joint made therewith. 3,200,191, 8-10-65, Cl. 174-88.
- Davies, Ivor J., to Hawker Siddeley Aviation Ltd. Parachute having variable vent area. 3,193,222, 7-6-65, Cl. 244-145.
- Davies, James M., and W. G. Johnson, to Caterpillar Tractor Co. Turbocharger brake. 3,203,514, 8-31-65, Cl. 188-170.
- Davies, John E., to Bristol Siddeley Engines Ltd. Alloys. 3,220,808, 11-30-65, Cl. 29-194.
- Davies, John S. Slip meter apparatus and method for measuring frictional properties of materials. 3,187,552, 6-8-65, Cl. 73-9.
- Davies, Leslie J., to Canadian Refractories Ltd. Method and apparatus for measuring the gas permeability of permeable bodies. 3,181,346, 5-4-65, Cl. 73-38.
- Davies, Paul M., to Thompson Ramo Wooldridge Inc. Superconductive associative memory system. 3,196,407, 7-20-65, Cl. 340-173.1.
- Davies, Paul M., to Thompson Ramo Wooldridge Inc. Sequential retrieval control for a self-searching memory. 3,196,409, 7-20-65, Cl. 340-173.1.
- Davies, Paul M., to Thompson Ramo Wooldridge Inc. Self-searching memory utilizing improved memory elements. 3,196,410, 7-20-65, Cl. 340-173.1.
- Davies, Paul M., to TRW Inc. Storage circuits for a self-searching memory. 3,210,739, 10-5-65, Cl. 340-173.1.
- Davies, Phineas, to Imperial Chemical Industries Ltd. Oxidation of sulphur dioxide to sulphur trioxide and catalysts therefor. 3,186,794, 6-1-65, Cl. 23-175.
- Davies, Raymond J., and P. D. Mills, to Dunlop Rubber Co. Ltd. Levelling valve for vehicles with pneumatic or hydraulic suspension. 3,183,935, 5-18-65, Cl. 137-627.5.
- Davies, Reginald B. Apparatus for mixing and dispensing feed and like materials. 3,186,689, 6-1-65, Cl. 259-44.
- Davies, Richard T.: See—
- Smith, James D., and Davies. 3,223,139.
- Davies, Robert H., to Parker-Hannifin Corp. Fuel selector and flow divider valve and control means for jet engines. 3,197,958, 8-3-65, Cl. 60-35.6.
- Davies, Robert L., to General Electric Co. Semiconductor device. 3,172,068, 3-2-65, Cl. 338-13.
- Davies, Robert W., and S. Kuba, to Western Electric Co., Inc. Apparatus for making dope pellets. 3,206,799, 9-21-65, Cl. 18-2.7.
- Davies, Roy D., to Moore Business Forms, Inc. Paper and the like web severing mechanisms. 3,191,832, 6-29-65, Cl. 225-100.
- Davies, Sydney, to The Adamson-Alliance Co. Ltd. Electrical power supply connection assemblies for moving machinery. 3,219,750, 11-23-65, Cl. 174-69.
- Davies, Theodore E., to The North American Mfg. Co. Apparatus for scale free heating of metals. 3,170,631, 2-23-65, Cl. 263-40.
- Davies, Thomas J.: See—
- Elkas, Louis, and Davies. 3,197,906.
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- Davis, Alice C.: See—
- Davis, George W. 3,181,301.
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- Golden, Robert L., Davis, and Geiger. 3,212,446.
- Davis, Arthur C. Electrodynamical transducers with flexible ferromagnetic flux paths. 3,196,216, 7-20-65, Cl. 179-100.41.
- Davis, Arthur G. Pliston for expanding arbor. 3,182,568, 5-11-65, Cl. 92-194.
- Davis, Arthur G. Adapter with adjustment for setting cutters. 3,202,433, 8-24-65, Cl. 279-9.
- Davis, Augustine, Jr., and J. A. Nichols, Davisbilt Steel Joist, Inc. Nailable metal joist. 3,164,227, 1-5-65, Cl. 189-37.
- Davis, Bayard C., A. Singer, and M. T. Chapman, Jr., to Continental Sensing, Inc. Insulated metallic sheathed conductor employing at least one pair of twisted signal carrying wires. 3,205,296, 9-7-65, Cl. 174-34.
- Davis, Bayard C., and A. Singer. Portable saw including work holder. 3,205,621, 9-14-65, Cl. 51-98.
- Davis, Belford L. Acceleration control system for a vehicle. 3,186,090, 1-19-65, Cl. 137-353.
- Davis, Billy C., and J. D. Helms, to Texas Instruments Inc. Welding apparatus. 3,207,884, 9-21-65, Cl. 219-89.
- Davis, Billy D.: See—
- Bressler, Wilbur L., and Davis. 3,219,598.
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- Davis, Bob K.: See—
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- Davis, Carroll C., to United States of America, Air Force. Blade vibration damping device. 3,181,835, 5-4-65, Cl. 253-77.
- Davis, Charles F. Semi-automatic solder feeding apparatus. 3,219,251, 11-23-65, Cl. 228-53.
- Davis, Charles J. Trench digging machine with dirt deflecting assembly. 3,209,473, 10-5-65, Cl. 37-86.
- Davis, Charles J., and R. N. Nissen, said Nissen assor, to said Davis. Self-propelled excavating machine. 3,167,194, 1-26-65, Cl. 214-138.
- Davis, Charles L., to Phillips Petroleum Co. Slurry feeder apparatus and method. 3,206,396, 9-14-65, Cl. 210-19.
- Davis, Charles L., to The Pillsbury Co. Merchandising package. 3,222,190, 12-7-65, Cl. 99-172.
- Davis, Charles T., to Phillips Petroleum Co. Terpolymer of propylene, conjugated diene and another 1-olefin of 4 to 6 carbon atoms. 3,208,982, 9-28-65, Cl. 260-80.7.
- Davis, Chester. Associated dye salts and method of forming colored indicia therewith. 3,193,404, 7-6-65, Cl. 117-38.
- Davis, Claud M., to International Business Machines Corp. Binary adder. 3,185,822, 5-25-65, Cl. 235-153.
- Davis, Claude M.: See—
- Florin, James W., Gillemot, and Davis. 3,168,824.
- Davis, Daniel H., Jr., to Burroughs Corp. Fountain ink roller and ink supply. 3,194,155, 7-13-65, Cl. 401-366.
- Davis, Dean W., to International Telephone and Telegraph Corp. Storage screen assembly for charge storage tubes. 3,202,856, 8-24-65, Cl. 313-89.
- Davis, Dhuaine J. Two stage injection molding apparatus for insulating deformable articles. 3,200,444, 8-17-65, Cl. 18-30.
- Davis, Donovan C., and L. A. Ule, to United States of America, Army. Automatic frequency acquisition circuit. 3,197,718, 1-26-65, Cl. 328-127.
- Davis, Douglas P. Apparatus for assembling memory matrix components. 3,174,214, 3-23-65, Cl. 29-203.
- Davis, Duane A., and P. S. Bettoli, to The Ruberoid Co. Self-sealing shingles. 3,217,870, 11-16-65, Cl. 206-60.
- Davis, Dwight E.: See—
- Tully, Geoffrey R., Jr., Disselhorst, and Davis. 3,167,447.
- Davis, Earl E.: See—
- Loveall, George A., Jr., and Davis. 3,185,346.
- Davis, Edward L.: See—
- Bogart, William H., Davis, Hassenauer, Pakurar, and Tuffolo. 3,225,706.
- Davis, Edward L., and R. L. Hassenauer, to General American Transportation Corp. Railway cars comprising bodies having wide side access openings thereinto. 3,190,239, 6-22-65, Cl. 105-378.
- Davis, Edward M.: See—
- Munro, Albert E., Crounse, and Davis. 3,185,709.
- Davis, Edward M., Jr., to International Business Machines Corp. Method of automatically etching an Esaki diode. 3,196,094, 7-20-65, Cl. 204-143.
- Davis, Edward R. Automatic ball retrieving device. 3,168,312, 3-2-65, Cl. 273-26.
- Davis, Ernest G., and E. E. Wiseman, to Borg-Warner Corp. Disc brake. 3,167,156, 1-26-65, Cl. 188-72.
- Davis Flow Valve, Inc.: See—
- Davis, Harry S. 3,224,457.
- Davis, Harry S. 3,224,458.
- Davis, Francis A., Jr., and J. F. Flannery, to Paramount Packaging Corp. Plastic bag cutter. 3,183,750, 5-18-65, Cl. 82-146.
- Davis, Francis A., Jr., and J. F. Flannery, to Paramount Packaging Corp. Assembly of bags. 3,184,055, 5-18-65, Cl. 206-57.
- Davis, Frank A., and H. H. Losche. Traffic instructional means for incorporation in and use with electric traffic signal lights. 3,210,728, 10-5-65, Cl. 340-107.
- Davis, Frank J.: See—
- Osborn, Carolus M., and Davis. 3,224,479.
- Davis, Frank L. Missile tiedown. 3,175,799, 3-30-65, Cl. 248-361.
- Davis, Frank L. Quick releasable buckle with belt length adjustments. 3,222,739, 12-14-65, Cl. 24-75.
- Davis, Frank L. Adjustable belt buckle with safety catch. 3,225,401, 12-28-65, Cl. 24-75.
- Davis, Frank T.: See—
- Davis, William F. and F. T. 3,210,104.
- Davis, G. W., Corp.: See—
- Epstein, Isidore. 3,186,152.
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- Epstein, Isidore. 3,191,370.
- Davis, Garlin R. Dice machine table. 3,175,826, 3-30-65, Cl. 273-145.
- Davis, Geoffrey G. J., to The Associated Portland Cement Manufacturers Ltd. Filter press. 3,204,769, 9-7-65, Cl. 210-230.
- Davis, George, to Link Belt Co. Coupling. 3,166,344, 1-19-65, Cl. 285-134.

- Davis, George, to Link Belt Co. Transmission. 3,212,356, 10-19-65, Cl. 74-661.
- Davis, George B., Jr. Fluid dispenser. 3,176,883, 4-6-65, Cl. 222-193.
- Davis, George B., Jr. Fluid dispenser. 3,221,945, 12-7-65, Cl. 222-193.
- Davis, George D., to Monsanto Co. Desorption of molecular sieves by hydrogenation. 3,207,803, 9-21-65, Cl. 260-677.
- Davis, George D., and E. C. Makin, Jr., to Monsanto Co. Purification of olefins. 3,221,073, 11-30-65, Cl. 260-677.
- Davis, George G. Fireplace. 3,190,279, 6-22-65, Cl. 126-63.
- Davis, George H. Ditching machine having floatingly mounted cutting head. 3,168,785, 2-9-65, Cl. 37-92.
- Davis, George M., to Dygert & Stone, Inc. Dispenser closure and container. 3,217,949, 11-16-65, Cl. 222-180.
- Davis, George R.: See—
- Ray, William E., and Davis. 3,188,446.
- Davis, George W., deceased; A. C. Davis, executrix. Method and apparatus for entrenching a section of pipeline in a riverbed. 3,181,301, 5-4-65, Cl. 61-72.4.
- Davis, Glenn B. Car-top camper apparatus. 3,191,829, 6-29-65, Cl. 224-42.1.
- Davis, Gilda M.: See—
- Sloan, Paul H., Schaeffer, and Mowery. 3,212,833.
- Davis, Gordon J.: See—
- Smith, Thomas R., Davis, McNally, and Cochran. 3,197,271.
- Davis, H. Toy Corp.: See—
- Davis, Harry. 3,220,439.
- Davis, Harold W. Receptacle for extinguishing burning cigars, cigarettes and the like. 3,186,414, 6-1-65, Cl. 131-236.
- Davis, Harry, to H. Davis Toy Corp. Hand looms. 3,220,439, 11-30-65, Cl. 139-34.
- Davis, Harry E. Drinking straw. 3,168,982, 2-9-65, Cl. 239-33.
- Davis, Harry E., and F. B. Pfeiffer. Method and apparatus for making drinking straw. 3,203,325, 8-31-65, Cl. 93-80.
- Davis, Harry L.: See—
- De Domenico, Vincent M., and Davis. 3,184,104.
- Davis, Harry S., to Davis Flow Valve, Inc. Sequencing valve. 3,224,457, 12-21-65, Cl. 137-119.
- Davis, Harry S., to Davis Flow Valve, Inc. Sequencing valve. 3,224,458, 12-21-65, Cl. 137-119.
- Davis, Hazel E. Material handling device. 3,191,768, 6-29-65, Cl. 206-56.
- Davis, Henry E.: See—
- Dickinson, Robert E., and Davis. 3,180,438.
- Davis, Henry F., to Honeywell Inc. Fluid analyzing instrumentation system. 3,214,964, 11-2-65, Cl. 73-53.
- Davis, Herbert M., and W. H. Lockwood, to United Kingdom Atomic Energy Authority. Device for detaching Mercury drops from a capillary tube. 3,222,942, 12-14-65, Cl. 74-102.
- Davis, Herman E.: See—
- Touey, George P., and Davis. 3,222,358.
- Davis, Horace R.: See—
- Chiang, Stanley H.-K., and Davis. 3,214,443.
- Updgraft, David M., and Davis. 3,211,680.
- Davis, Horace R., to Minnesota Mining and Mfg. Co. Fluorinated oxetanes. 3,184,610, 1-5-65, Cl. 260-333.
- Davis, Horace R., to Minnesota Mining and Mfg. Co. 2-alkoxy-5,5-bis(haloalkyl)-2,5-dihydrofurans and preparation thereof. 3,184,481, 5-18-65, Cl. 260-347.8.
- Davis, Horace R., to Minnesota Mining and Mfg. Co. Sulfonyl azetidinone compounds. 3,185,677, 5-25-65, Cl. 260-239.
- Davis, Howard C.: See—
- Trumbull, Harold E., Hull, and Davis. 3,219,799.
- Davis, Howard G., Jr., E. J. Conway, and J. L. Perkins, to United Shoe Machinery Corp. Outsole and method of attaching same. 3,177,997, 4-13-65, Cl. 36-19.5.
- Davis, Howard W.: See—
- Covert, Robert J., Davis, and Talmage. 3,169,567.
- Davis, Irwin J. Photographic reproduction method. 3,177,496, 4-6-65, Cl. 352-86.
- Davis, Irwin J. Three-dimensional displays. 3,190,019, 6-22-65, Cl. 40-77.
- Davis, James C., to Beckman Instruments, Inc. Signal peak control circuit. 3,211,979, 10-12-65, Cl. 318-207.
- Davis, James C., and K. B. Sawa, to Beckman Instruments, Inc. Signal peak control circuit. 3,211,980, 10-12-65, Cl. 318-207.
- Davis, James C., Jr.: See—
- Taylor, Hugh F., and Davis. 3,185,929.
- Davis, James J.: See—
- Schmeltz, Andrew H., and Davis. 3,191,727.
- Davis, James R., to The Trans Co. Fluid control device. 3,212,424, 10-19-65, Cl. 98-38.
- Davis, Jerald W. Automatic bullet puller. 3,174,389, 3-23-65, Cl. 86-23.
- Davis, John B.: See—
- Cochran, Chudleigh B., and Davis. 3,180,419.
- Davis, John B., to Socony Mobil Oil Co., Inc. Biosynthesis of waxy esters. 3,169,099, 2-9-65, Cl. 195-3.
- Davis, John B., and J. P. Stanley, to Socony Mobil Oil Co., Inc. Microbiological nitrogen fixation. 3,210,179, 10-5-65, Cl. 71-7.
- Davis, John E., to The Bendix Corp. Polarized switching device. 3,184,610, 5-18-65, Cl. 307-88.5.
- Davis, John E., to Bio-Science Laboratories. Spot and stripe applicator for chromatography. 3,189,413, 6-15-65, Cl. 23-253.
- Davis, John E., to J. Briskin, Inc. Dispenser. 3,199,788, 8-10-65, Cl. 239-310.
- Davis, John H. Blind press nut devices. 3,215,026, 11-2-65, Cl. 85-70.
- Davis, John K., and H. G. Fernald, to American Optical Co. Ophthalmic aspheric lens series. 3,169,247, 2-9-65, Cl. 351-167.
- Davis, John L., to United States of America, Navy. Method of lowering the surface recombination velocity of indium antimonide crystals. 3,212,939, 10-19-65, Cl. 148-1.5.
- Davis, John S.: See—
- Amdahl, Lowell D., Breuer, and Davis. 3,202,805.
- Davis, John S., to Equitable Paper Bag Co. Inc. Apparatus for applying a line or band of coating material along a web. 3,186,378, 6-1-65, Cl. 118-8.
- Davis, John S., to Equitable Paper Bag Co. Inc. Method of making paper bags having re-inforced mouth portions. 3,194,125, 7-13-65, Cl. 93-35.
- Davis, John W., and K. J. Wells, to Girling Ltd. Hydraulically operated disc brakes. 3,221,844, 12-7-65, Cl. 188-152.
- Davis, Julius M., and R. A. Pfuger, to General Foods Corp. Combined air drying-freeze drying process. 3,188,750, 6-15-65, Cl. 34-5.
- Davis, Karl A., to North American Aviation, Inc. Electromagnetic flowmeter. 3,191,436, 6-29-65, Cl. 73-194.
- Davis, Karl A., to North American Aviation, Inc. Metal oxide concentration meter. 3,222,916, 12-14-65, Cl. 73-15.
- Davis, Kenneth J.: See—
- Gates, Thomas S., Davis, and Bassoff. 3,195,409.
- Gates, Thomas S., Davis, and Bassoff. 3,217,602.
- Davis, Kenneth J., to National Broach & Machine Co. Machine for honing a gear. 3,177,623, 4-13-65, Cl. 51-105.
- Davis, Lawrence E. Door construction. 3,177,533, 4-13-65, Cl. 20-35.
- Davis, Leo R., to Dowington Paper Co. Protective shock-resistant carton. 3,217,960, 11-16-65, Cl. 229-39.
- Davis, Leo R., to Dowington Paper Co. Tubular carton with coupon and display tab. 3,219,253, 11-23-65, Cl. 229-16.
- Davis, Lewis M.: See—
- Hesling, Donald M., Kibbey, and Davis. 3,174,762.
- Davis, Lill. Coin-operated service buffet counter. 3,170,554, 2-23-65, Cl. 194-2.
- Davis, Loren R.: See—
- Zimmermann, Hans J., and Davis. 3,209,676.
- Davis, Louis K., to General Electric Co. Oscillation damping system. 3,226,062, 12-28-65, Cl. 244-93.
- Davis Mfg., Inc.: See—
- Mayfield, Alfred B., and Darling. 3,178,965.
- Davis, Marvin A., and G. Kemp, to Westinghouse Electric Corp. Motor control apparatus for cutting traveling workpiece. 3,189,812, 6-15-65, Cl. 318-445.
- Davis, Marvin A., and D. A. Poepsel, to Westinghouse Electric Corp. Signal sequence sensing apparatus. 3,206,683, 9-14-65, Cl. 328-97.
- Davis, Maurice. Air filters. 3,177,637, 4-13-65, Cl. 55-483.
- Davis, Melbourne E. Sitz bath therapy device. 3,181,534, 5-4-65, Cl. 128-377.
- Davis, Meyer. Automatic focus copy camera. 3,208,338, 9-28-65, Cl. 88-24.
- Davis, Michael, to May & Baker Ltd. 3,17-diamino androstane and androstene derivatives. 3,169,093, 2-9-65, Cl. 167-65.
- Davis, Michael, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,189,525, 6-15-65, Cl. 176-81.
- Davis, Milford H.: See—
- Culver, William H., and Davis. 3,216,263.
- Davis, Monte V.: See—
- Wetch, Joseph R., Dieckamp, and Davis. 3,164,525.
- Davis, Noah S.: See—
- Mohman, John W., and Davis. 3,183,679.
- Davis, Orland T. Gas backing blocks for welded joints. 3,194,466, 7-13-65, Cl. 228-42.
- Davis, Orris A., Sr.: See—
- Biber, Albert, Davis, and Walsh. 3,226,037.
- Davis, Orris A., Sr., and B. R. Walsh, to Gulf Research & Development Co. Compressor and atomizing nozzle lubricator. 3,175,643, 3-30-65, Cl. 184-55.
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- Davis, Paul, and L. G. McAllister, Jr., to Sweetheart Plastics, Inc. Ltd. 3,171,580, 3-2-65, Cl. 229-7.
- Davis, Paul K., to Pacific Roller Die Co., Inc. Pipe cutting and handling apparatus. 3,198,043, 8-3-65, Cl. 82-53.1.
- Davis, Pauls: See—
- Burke, Oliver W., Jr., Davis, and Nager. 3,203,171.
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- Denning, Ralph M., Lewis, Gardiner, and Davis. 3,186,661.
- Davis, Ralph A., to The Dow Chemical Co. Method of fluorinating with antimony pentafluoride. 3,201,483, 8-17-65, Cl. 260-653.8.
- Davis, Ralph B., to University of Notre Dame. Phenyl-p-aminophenyl acetone nitrile compounds and substituted derivatives thereof. 3,222,389, 12-7-65, Cl. 260-465.

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- Davis, Ralph R. Article dispensing device. 3,168,964, 2-9-65, Cl. 221-88.
- Davis, Ramona E. Data recorder. 3,188,646, 6-8-65, Cl. 346-43.
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- Davis, Raymond T., Jr., to United States Steel Corp. Method of making container stock. 3,188,734, 6-15-65, Cl. 29-528.
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- Davis, Rex M., and C. D. Clarke, to Brush Electrical Engineering Co. Ltd. Method of obtaining artificial commutation of an inverter. 3,219,905, 11-23-65, Cl. 321-8.
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- Davis, Richard K., to General Electric Co. Identification interrogation system. 3,209,351, 9-28-65, Cl. 343-65.
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- Davis, Robert G. Mobile power shovel. 3,208,609, 9-28-65, Cl. 214-131.
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- Davis, Robert H., and R. M. Dakin, to Bristol Siddeley Engines Ltd. Valve controlling means for a fuel system. 3,176,540, 4-6-65, Cl. 74-522.
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- Davis, Wallace, Jr., and W. C. Yee, to United States of America, Atomic Energy Commission. Recovery of strontium values from sulfate-containing waste solutions. 3,218,123, 11-16-65, Cl. 23-102.
- Davis, Walter H., Jr., to Monsanto Co. Spinnerette. 3,176,342, 4-6-65, Cl. 18-8.
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- Deakin, Stanley T., to Sealectro Corp. Electrical terminal assemblies. 3,214,512, 10-26-65, Cl. 174-153.
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- Dean, Walter B., to The Budd Co. Brake apparatus. 3,178,238, 4-13-65, Cl. 303-22.
- Deaner, Harold W., to Sperry Rand Corp. Altitude sensing apparatus. 3,175,527, 3-30-65, Cl. 114-68.5.
- De Angelis, Eugene, and J. L. Wherry, to Toledo Stamping & Mfg. Co. Trailer hitch. 3,180,454, 4-27-65, Cl. 188-112.
- De Angelis, George. Method and apparatus for drawing three dimensional views of objects. 3,191,307, 6-29-65, Cl. 33-77.
- De Angelo, George B., to The Clark-Alken Co. Method and apparatus for handling sheets cut from a web. 3,198,046, 8-3-65, Cl. 83-24.
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- Deanin, Rudolph D., and P. Roessel, to Allied Chemical Corp. Process for preparation of polycarbonate resins. 3,213,059, 10-19-65, Cl. 260-47.
- Deans, Frederick E., and C. H. Wainwright, to The Bentley Engineering Co. Ltd. Driving mechanism of circular knitting machines. 3,186,242, 6-1-65, Cl. 74-79.
- Deans, Frederick E., and J. M. Klee, to The Bentley Engineering Co. Ltd. Racking means for circular knitting machines. 3,218,830, 11-23-65, Cl. 66-154.
- Deans, Howard, to Klier-Vu Industries, Inc. Ultrasonic sealing system. 3,222,239, 12-7-65, Cl. 156-380.
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- Deardorf, Hugo. Supporting or holding strap or clamp for cables and the like. 3,210,033, 10-5-65, Cl. 248-74.
- Dearing, Clarence W., to American Flange & Mfg. Co., Inc. Container wall closure combinations and assemblies. 3,216,632, 11-9-65, Cl. 222-541.
- Dearle, Denis A., to North & Judd Mfg. Co. Closure for openings in the walls of electrical outlet boxes and the like. 3,215,303, 11-2-65, Cl. 220-27.
- Dearsley, George, to American Machine & Foundry Co. Apparatus for removal of tips from scrap cigarettes. 3,224,451, 12-21-65, Cl. 131-20.
- Deaton, Charles U. Holder for pens and the like. 3,182,637, 5-11-65, Cl. 120-106.
- Deaton, Homer W., to General Motors Corp. Humidity sensing control for a clothes drier. 3,170,774, 2-23-65, Cl. 34-45.
- Deaton, Homer W., to General Motors Corp. Humidity responsive dryer control. 3,205,590, 9-14-65, Cl. 34-45.
- Deaton, Homer W., to General Motors Corp. Control system for clothes dryers. 3,213,548, 10-26-65, Cl. 34-45.
- Deaton, Homer W., to General Motors Corp. Temperature control electric circuit. 3,215,818, 11-2-65, Cl. 219-499.
- Deaton, Homer W., and R. M. Hutchinson, to General Motors Corp. Temperature responsive timer control for a clothes drier. 3,196,553, 7-27-65, Cl. 34-45.
- Deaton, William M., and C. G. Kirkland, to United States of America, Interior. Apparatus for concentrating trace impurities in high-purity helium. 3,194,054, 7-13-65, Cl. 73-25.
- Deavenport, Joe E., to California Instrument Corp. Oscilloscope control circuitry. 3,204,144, 8-31-65, Cl. 315-24.
- De Barba, Albert E., to Consolidated Electronics Industries Corp. Chronometric governor. 3,187,126, 6-1-65, Cl. 200-52.
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- Debe, Anthony. Method of making a derivative of salicylic acid. 3,168,452, 2-2-65, Cl. 204-44.
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- Debe, Anthony. Copper plating bath. 3,216,913, 11-9-65, Cl. 204-52.
- Debe, Anthony, L. B. Portzer, deceased (M. R. Portzer, executor). Method of making catalytic agent for plating bath. 3,168,454, 2-2-65, Cl. 204-44.
- De Belder, Maurice H., to Gevaert Photo-Produkten N.V. Developing device. 3,186,325, 6-1-65, Cl. 95-89.
- De Bell, Arthur G., Q. S. Anderson, and F. S. Simmons, to North American Aviation, Inc. Blackbody source. 3,205,343, 9-7-65, Cl. 219-553.
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- De Benedetti, Harold B., to Tidewater Oil Co. Determination of the state of lubricated bearings for rotating shafts. 3,198,590, 8-3-65, Cl. 308-126.
- Debenham, William S., to United States Steel Corp. Method and apparatus for handling slag. 3,171,736, 3-2-65, Cl. 75-43.
- De Benneville, Peter L., and H. W. Blessing, to Rohm & Haas Co. Azo-bis-alkylphosphonates and corresponding acids. 3,170,913, 2-23-65, Cl. 260-192.
- De Benneville, Peter L., and H. W. Blessing, to Rohm & Haas Co. Foamable resinous compositions employing azo-bis-alkylphosphonates and corresponding acids. 3,207,714, 9-21-65, Cl. 260-2.5.
- De Benneville, Peter L., and H. W. Blessing, to Rohm & Haas Co. Method for controlling undesired plants. 3,219,431, 11-23-65, Cl. 71-2.7.
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- Deblize, Francis, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Fuel with a base of boron and with a high calorific power. 3,220,809, 11-30-65, Cl. 44-51.
- De Blasio, Conrad G. Crystal-controlled oscillation generator and associated circuitry. 3,221,268, 11-30-65, Cl. 331-99.
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- De Boer, Geert, to Volma, N.V. Cheese mold apparatus. 3,199,195, 8-10-65, Cl. 31-44.
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- De Bolt, Richard R., to California Research Corp. Mixing and reaction apparatus. 3,183,065, 5-11-65, Cl. 23-285.
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- De Bottari, Louis A., and C. Guajardo, to Alpha-Tronics Corp. Blanking circuit for ring counter and including gating circuits at the outputs thereof. 3,165,846, 1-12-65, Cl. 307-88.5.
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- Debrle, André V. L. C. Handle assembly for cameras. 3,187,658, 6-8-65, Cl. 95-86.
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- De Bruin, Hugo J., to Ideal Industries, Inc. Wire stripper. 3,177,741, 4-13-65, Cl. 51-9.5.
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- DeBry, Ronald S., to Varian Associates. Voltage regulating transistor circuit employing magnetic sensing means. 3,214,676, 10-26-65, Cl. 323-22.
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- Debus, Karl, to Linotype G.m.b.H. Slug trimming arrangement for line casting machine. 3,209,902, 10-5-65, Cl. 199-54.
- De Butts, Edward H., and J. T. Hays, to Hercules Powder Co. Manufacture of amino ethers. 3,214,473, 10-26-65, Cl. 260-575.
- DeCaccia, Godfrey L., to Pendleton Tool Industries, Inc. Parts container and mounting means therefor. 3,164,259, 1-5-65, Cl. 211-131.
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- DeCaccia, Godfrey L., to Pendleton Tool Industries, Inc. Cut wire holder and mounting means therefor. 3,186,553, 6-1-65, Cl. 211-13.
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- De Caro, Charles J., R. W. Henning, and H. L. Ivins, to Rammet Fasteners, Inc. Tool. 3,171,131, 3-2-65, Cl. 1-44.5.
- De Caro, Charles J., and R. W. Henning, to Olin Mathieson Chemical Corp. Cocking means for the firing pin of an explosively actuated tool. 3,172,118, 3-9-65, Cl. 1-44.5.
- De Caro, Charles J., and R. W. Henning, to Olin Mathieson Chemical Corp. Explosive actuated tool. 3,172,120, 3-9-65, Cl. 1-44.5.
- De Castro, Antonio P., to J. D'Augusta. Wind-resistant building. 3,195,694, 7-20-65, Cl. 189-1.
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- De Cenzo, Herbert A., to Purolator Products, Inc. Coupling. 3,223,438, 12-14-65, Cl. 285-233.
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- Deeks, Douglas B. Steam trap. 3,220,650. 11-30-65. Cl. 236-59.

- Deely, Carroll L. Rotary, expandable bore hole reamers with improved safety features. 3,180,439. 4-27-65. Cl. 175-286.

- Deem, Hubert A., W. T. Walters, and F. M. Wood, to American Machine & Foundry Co. Apparatus for inspection of tubular ferromagnetic members using plural movable search shoes for identifying area depth and location of discontinuities. 3,202,914. 8-24-65. Cl. 324-37.

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- Dekking, Henri G. G., to Union Oil Co. of California. Organosolids. 3,208,984, 9-28-65, Cl. 260-89.5.
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- DeKnutdt, René: See—
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- De Kolb, Eric, to Coty, Inc. Film cutting device for a face powder box. 3,212,509, 10-19-65, Cl. 132-82.
- De Koning, Arle A. and K. K. K. Shock damper. 3,209,868, 10-5-65, Cl. 188-88.
- De Koning, Jacob. Bar screen. 3,221,877, 12-7-65, Cl. 209-314.
- De Koning, Kornelis K. K.: See—
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- De Koranyi, Laszlo: See—
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- De Kramer, Isaac A.: See—
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- De Kraker, Larry, M. M. Sipple, and D. L. Ve Nard, to Lear Siegler, Inc. Toroidal winding machine. 3,206,130, 9-14-65, Cl. 242-4.
- De Kroes, Jan L., and W. H. J. Nicolai, to North American Phillips Co., Inc. Circuit arrangement for the selection of one of a number of individual devices. 3,177,409, 4-6-65, Cl. 317-137.

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- De la Bretoniere, Andre B., to American Enka Corp. Apparatus for the heating of travelling thread or tape-shaped products on a transport roller. 3,200,230, 8-10-65, Cl. 219-10.49.
- De la Bruniere, Patrick: *See*—
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- Delachanal, Michel: *See*—
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- De La Clerva, to Dynasciences Corp. Image motion compensator. 3,212,420, 10-19-65, Cl. 95-12.5.
- Delacour, Jacques: *See*—
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- De la Cova Paul V.: *See*—
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- Delacretaz, Richard, to Monsanto Co. Molecular weight regulation in polymerization of vinylidene monomers using a phosphite regulator. 3,222,335, 12-7-65, Cl. 200-85.5.
- Delacretaz, Richard E., S. P. Nemphos, and R. L. Walter, to Monsanto Co. Copolymers having improved optical clarity. 3,198,775, 8-3-65, Cl. 200-85.5.
- Deladerriere, André, to Reveils Bayard, Societe Anonyme. Microcontact device for oscillating systems. 3,221,488, 12-7-65, Cl. 58-28.
- Deladerriere, André, to Reveils Bayard, Societe Anonyme. Time keeping apparatus possessing sounding alarms. 3,225,535, 12-28-65, Cl. 58-16.
- Delafrange, Kenneth M. Electrical connector with a helical bimetal overload. 3,225,162, 12-21-65, Cl. 200-115.5.
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- Delage, Edward P.: *See*—
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- Delahunt, John F., and J. V. Clarke, Jr., to Esso Research and Engineering Co. Fuel cell electrolyte. 3,220,887, 11-30-65, Cl. 136-154.
- Delaire, Gerard V., to Eastman Kodak Co. Plastic case for containers. 3,184,071, 5-18-65, Cl. 211-74.
- De Laittre, Howard M., to Bemis Bro. Bag Co. Bag apparatus. 3,182,617, 5-11-65, Cl. 112-10.
- De Laittre, Norman C.: *See*—
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- De Lajarte, Stephane D., to Compagnie de Saint-Gobain. Process for the manufacture of flat glass. 3,218,143, 11-16-65, Cl. 65-90.
- De Lajarte, Stephane D., to Compagnie de Saint-Gobain. Glass compositions. 3,218,262, 11-16-65, Cl. 252-301.1.
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- De Lallo, George M. Infinitely variable power transmission. 3,204,486, 9-7-65, Cl. 74-687.
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- Delaney, Lawrence J., Jr. Educational testing device. 3,166,860, 1-26-65, Cl. 35-48.
- Delaney, Luke. Mattress display rack. 3,185,306, 5-25-65, Cl. 211-28.
- Delaney, William, to Kadison Laboratories, Inc. Tenderizing of fresh meats. 3,188,213, 6-8-65, Cl. 99-107.
- Delaney, William J.: *See*—
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- De Lang, Hendrik, and G. Bouwhuis, to North American Philips Co., Inc. Optical system for a color television camera. 3,202,039, 8-24-65, Cl. 88-1.
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- Delanoy, Donald B., to Pye Ltd. Automatic telephone systems. 3,192,324, 6-29-65, Cl. 179-18.
- De Lany, Beatrice P., and P. L. Copeland. Drill hole type cathode with cooling means. 3,205,388, 9-7-65, Cl. 313-35.
- Delany, John J., and E. C. Baisel, to Coyne & Delany Co. Pilot operated diaphragm flush valve. 3,202,396, 8-24-65, Cl. 251-30.
- Delapena, John M., to Porlester Ltd. Control circuit for a dishwashing machine. 3,194,250, 7-13-65, Cl. 134-57.
- Delapena, John M. D., to Porlester Ltd. Spray device for dishwashing machines. 3,210,010, 10-5-65, Cl. 239-242.
- De Laval Turbine Inc.: *See*—
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- De la Rambelje, Henry A., to Hico Corp. of America. Form supporting girder construction. 3,196,996, 7-27-65, Cl. 189-36.
- De Larebeyrette, Jean., to J.-P. Lepetre. Process for the preparation of cereal flours. 3,172,766, 3-9-65, Cl. 99-93.
- De Larebeyrette, Jean. Steroid for dysproteinemia. 3,175,946, 8-30-65, Cl. 167-77.
- De Larebeyrette, Jean. Steroid medication for metabolic disorders. 3,183,160, 5-11-65, Cl. 167-77.
- De la Rive Box, Robert. Mosaic comprising a plurality of permanently detachable mosaic elements. 3,178,332, 4-13-65, Cl. 161-37.
- De La Ronde, Roy E. J., and G. O. De Lucia. Guitar attachment. 3,169,437, 2-16-65, Cl. 84-267.
- De La Rue, Thomas, and Co. Ltd.: *See*—
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- Delarue, Jean-Louis A., to Laboratoires Torade. Stabilized salicylate compositions. 3,208,907, 9-28-65, Cl. 167-65.
- Delaruelle, Jacques, and M. Banal, to Electricite de France, and Gaz de France. Floats. 3,181,182, 5-4-65, Cl. 9-8.
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- Del Corral, Alberto. Bidirectional binary counter system. 3,189,795, 6-15-65, Cl. 317-140.
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- De Lew, Earl R., to Yosemite Chemical Co. Method of treating oil on the surface of water. 3,198,731, 8-3-65, Cl. 210-42.
- Delfield Co.: *See*—
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- Delforge, Alfred, to Extraction Continue de Smet, Societe Anonyme. Water, isopropanol and hexane scouring of wool. 3,210,148, 10-5-65, Cl. 8-139.1.
- Del Francia, Joel A., to Institutional Food Equipment Corp. Combination cook stove and retractable oven. 3,167,065, 1-26-65, Cl. 126-19.
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- Delgado, Avelino M., to Electronica Textil S.A. Eltexsa. Electric driver for driving the woof-carrying unit of a loom. 3,179,867, 4-20-65, Cl. 318-135.
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- Del Giudice, Frank P., to Metal Hydrides Inc. Method for preparing high purity crystals of lithium borohydride. 3,222,120, 12-7-65, Cl. 23-14.
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- De Lia, Ernest, deceased (by L. De Lia, administratrix), W. R. Pepis, D. J. Carlick, and W. J. Kissel, to Interchemical Corp. New polyamides and laminates made therefrom. 3,207,653, 9-21-65, Cl. 161-190.
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- Dellin, Irwin L., to Columbia Broadcasting System, Inc. Tape transport mechanism. 3,219,290, 11-23-65, Cl. 242-55.12.
- Deline, Jack M. Positive drive axle construction. 3,174,861, 3-23-65, Cl. 74-650.
- De Lisle, A. Louis, deceased (by F. S. de Lisle, executrix), to Phoenix Gems, Inc. Insecticide products and method of producing same. 3,207,862, 9-21-65, Cl. 167-42.
- De Lisle, Auguste L. Production of improved asbestos fiber. 3,184,288, 5-18-65, Cl. 23-110.
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- Delker, Thomas C., to The Bendix Corp. Rotor end cap. 3,165,474, 1-12-65, Cl. 233-27.
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- Dell, Hugh A., to North American Phillips Co., Inc. Analogue magnetic integrator. 3,223,847, 12-14-65, Cl. 307-88.
- Dell, Richard G., and R. A. Meinzer, to Allied Chemical Corp. Heat stable polycarbamates containing metal salts of oxyacids of phosphorus. 3,201,369, 8-17-65, Cl. 260-45.75.
- Dell, Thomas D., to United Shoe Machinery Corp. Heel end assembling machines. 3,176,332, 4-6-65, Cl. 12-8.7.
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- Della Bella, Italo, and B. Scholz. Thread shearing device. 3,206,948, 9-21-65, Cl. 66-145.
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- Della Porta, Paolo. Mixed getter devices, with evaporated and not evaporated gettering material, for maintaining the vacuum in electronic tubes. 3,195,716, 7-20-65, Cl. 206-4.
- Della Porta, Paolo. Method of manufacturing zirconium-aluminum alloy getters. 3,203,901, 8-31-65, Cl. 252-181.6.
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- Della Vite, Romuald R., to Societe Anonyme dite: Societe Francaise d'Etiquetage Virey & Garnier. High-speed labeling machine. 3,196,070, 7-20-65, Cl. 156-671.
- Deller, William B., and H. J. Stirling, to Associated Electrical Industries Ltd. Static switching arrangements of the cross-point type. 3,176,273, 3-30-65, Cl. 340-166.
- Deller, William B., J. F. Gatward, and H. J. Stirling, to Associated Electrical Industries Ltd. Switching systems employing co-ordinate switching arrangements of the cross-point type. 3,215,782, 11-2-65, Cl. 179-18.
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- Delli-Gatti, Frank A., Jr., to C. E. Compton. Side swinging type mining machine having cutter drum and chain. 3,210,123, 10-5-65, Cl. 299-64.
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- Dellinger, Thomas B., to Jersey Production Research Co. System for incorporating additives in drilling fluids. 3,175,628, 3-30-65, Cl. 175-72.
- Dellith, Werner, to Camloc Fastener Corp. Panel fastener. 3,222,744, 12-14-65, Cl. 24-221.
- Dellon, Franklin, to General Precision Inc. Distance measuring system by irradiating a target with light and sensing the reflected light. 3,164,661, 1-5-65, Cl. 88-1.
- Delloue, Jean, to Institut Francais du Petrole, des Carburants et Lubrifiants. Supervisory remote control and telemetering system. 3,221,805, 11-30-65, Cl. 840-163.
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- Delman, Alvin D., A. E. Ruff, and B. B. Simms, to United States of America, Navy. Cross-linking of polymers from perfluorodiamidines and perfluoromonoamidines. 3,218,270, 11-16-65, Cl. 260-2.
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- Del Muro de Rendon, Margarita. Soil improver and process for preparing same. 3,186,826, 6-1-65, Cl. 71-6.
- De Loach, Forrest H., Jr., and H. B. Miller. Method of preserving and restoring the freshness of cakes. 3,175,913, 3-30-65, Cl. 99-92.
- De Long, David A., to De Long Lures, Inc. Fish hook with weed guard. 3,221,437, 12-7-65, Cl. 43-43.4.
- De Long, Horace J., to Gainesville Machine Co., Inc. Poultry picking apparatus. 3,203,035, 8-31-65, Cl. 17-11.1.
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- De Lorenzo, Eugene J., and R. V. Wright, to Olin Mathieson Chemical Corp. Method for preparation of reaction products of diborane and conjugated diolefins. 3,164,638, 1-5-64, Cl. 260-606.5.
- De Lorenzo, Eugene J., and R. V. Wright, to Olin Mathieson Chemical Corp. Solid reaction products of amines and non-volatile reaction products of diborane and conjugated diolefin hydrocarbons. 3,167,589, 1-26-65, Cl. 260-583.
- De Lorenzo, Paul, to Delfield Co. Drop-in water station. 3,196,466, 7-27-65, Cl. 4-187.
- Delorme, Jacques E. A. Pumps. 3,203,357, 8-31-65, Cl. 103-153.
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- De Luxe Reading Corp.: *See*—
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- De Lyon, Rene, to AMP Inc. Electrical connector housing having panel mounting and latching means. 3,179,738, 4-20-65, Cl. 174-50.
- De Lyon, Rene, and A. E. Travis, to AMP Inc. Electrical connector. 3,188,606, 6-8-65, Cl. 339-256.
- Delzanno, Giuseppe, to Fiat Societa per Azioni. Automatic transfer device. 3,200,967, 8-17-65, Cl. 214-1.
- Delzanno, Giuseppe, to Fiat Societa per Azione. Multiple welding machine. 3,222,495, 12-7-65, Cl. 219-87.
- De Maagd, Donald R.: *See*—
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- De Maagd, Donald R., and R. Bielefeld, to Pneumo Dynamics Corp. Cable tension regulator. 3,180,176, 4-27-65, Cl. 74-601.5.
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- Demain, Arnold L., to Merck & Co., Inc. Sodium thiosulfate derivative of cephalosporin C. 3,219,663, 11-23-65, Cl. 260-243.
- De Malo, James. Portable wind screen. 3,187,761, 6-8-65, Cl. 135-5.
- De Maire, Joseph H.: *See*—
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- Demaison, Raymond J., to Quigley Co., Inc. Production of steel ingots. 3,206,154, 9-14-65, Cl. 249-135.

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- De Malglaive, Gabriel, to Seciven-Societe d'Exploitation de Chimie Industrielle Voitures & Norman. Valve for fluid dispenser. 3,201,012, 8-17-65, Cl. 222-501.
- De Mallie, Howard R., and P. U. Brothers, to Eastman Kodak Co. Slitting mechanism having transverse severing means. 3,169,430, 2-16-65, Cl. 83-152.
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- Demarest, David F.: See—
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- De Marle, David J., and T. S. Donovan, to Eastman Kodak Co. 2-hydroxymethyl-3-pyrazolidones. 3,221,023, 11-30-65, Cl. 260-310.
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- D'Onofrio, Anthony, to Pratt & Whitney Inc. Method of curing cementitious material by radio frequency energy. 3,192,291, 6-29-65, Cl. 264-26.
- D'Onofrio, Anthony A., to Union Carbide Corp. Linear polyesters of 9,9-fluorene-dicarboxylic acids and a method for the preparation thereof. 3,219,627, 11-23-65, Cl. 260-47.
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- Donohue, John C.: See—
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- Donohue, Thomas F., to General Motors Corp. Coupled engines. 3,181,294, 5-4-65, Cl. 60-39.15.
- Donohue, Walter A., to The Electric Storage Battery Co. Method for producing porous sintered plate. 3,186,871, 6-1-65, Cl. 136-29.
- Donovan, Daniel J.: See—
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- Donovan, George J., M. M. Feln, and M. S. Cohep, to Thiokol Chemical Corp. Reaction products of alkyldecaboranes and dinitriles. 3,184,499, 5-18-65, Cl. 260-465.6.
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- Doob, Hugo, Jr., T. E. Philipps, and G. E. Benson, to Owens-Corning Fiberglass Corp. Method of preparing fibrous glass reinforcements. 3,220,905, 11-30-65, Cl. 156-180.
- Dood, Charles G., and L. Maus, to Cherokee Laboratories, Inc. Method of depolymerizing alginic acid salts and esters by reaction with NO. 3,208,995, 9-28-65, Cl. 260-209.6.
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- Dooley, Kenneth J., and H. L. Thomson, to The Du-Lite Chemical Corp. Corrosion resistant coatings. 3,198,673, 8-3-65, Cl. 148-6.15.
- Dooley, Thurman T., to Cougar Mfg. Co., Inc. Brush rake attachment for bulldozer blade. 3,163,945, 1-5-65, Cl. 37-2.
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- Doolittle, Russell C., Jr. Wall panel. 3,176,432, 4-6-65, Cl. 50-186.
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- Doperalski, Eugene J., to Joy Mfg. Co. Piston ring assembly. 3,203,705, 8-31-65, Cl. 277-150.
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- Dopp, Homer R. Method of constructing roll shells. 3,186,063, 6-1-65, Cl. 29-148.4.
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- Doran, John T. Cement scarifier. 3,179,103, 4-20-65, Cl. 125-3.
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- Dorey, George B., to Enterprise Railway Equipment Co. Sliding hopper closure operating and supporting mechanism. 3,170,609, 2-23-65, Cl. 222-505.
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- Dorfman, Hiller D., deceased (by M. R. Dorfman, administrator), and G. J. Freese, to Westinghouse Electric Corp. Circuit breaker with arc-extinguishing means. 3,218,418, 11-16-65, Cl. 200-144.
- Dorfman, Minnie R.: See—
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- Douglas, Peyton W., to Blackstone Corp. Domestic laundering machine. 3,215,232, 11-2-65, Cl. 192-18.
- Douglas, Robert R., to American Meter Co., Inc. Liquid meter. 3,220,257, 11-30-65, Cl. 73-251.
- Douglas, Samuel A., to General Precision, Inc. Method of tapping an assembled potentiometer. 3,217,391, 11-16-65, Cl. 29-153.71.
- Douglas, William T., and L. W. Mills, to Martin-Marietta Corp. Command override for random access discrete address system. 3,192,527, 6-29-65, Cl. 343-177.
- Dougllass, Billy G., and V. J. Muccigrosso, to Westinghouse Electric Corp. Electron gun structural support. 3,213,310, 10-19-65, Cl. 313-82.
- Douglass, John, Jr., to Shampaine Industries, Inc. Hydraulically actuated surgical operating tables. 3,206,188, 9-14-65, Cl. 269-325.
- Doukas, George, and R. H. Reed, to E. I. du Pont de Nemours and Co. Scraping apparatus for arc-acetylene furnace. 3,185,754, 5-25-65, Cl. 13-9.
- Doumani, Thomas F., and C. S. Coe, to Union Oil Co. of California. Rocket propulsion method using organic sulfur-containing fuels. 3,196,607, 7-27-65, Cl. 60-35.4.
- Doumas, Arthur C., to The Dow Chemical Co. Azeotropic distillation of bromine. 3,212,998, 10-19-65, Cl. 202-42.
- Doundoulakis, George J., to W. J. Casey. Narrow bandwidth scanning system. 3,204,026, 8-31-65, Cl. 178-6.8.
- Doundoulakis, Helias, to Teleglobe Pay-TV-System, Inc. Subscription television system having keyed generation of syric signals at the receiver. 3,201,511, 8-17-65, Cl. 178-5.1.
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- Douros, John D., Jr., and R. L. Raymond, to Sun Oil Co. Production of amino acids. 3,219,543, 11-23-65, Cl. 195-1.
- Douroux, Etienne M. Internal combustion rotary motor. 3,213,838, 10-26-65, Cl. 123-16.
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- Dousette, George D. Bottle top metering dispenser and means for locking the same on a bottle. 3,164,300, 1-5-65, Cl. 222-153.
- Douslin, Donald R., to United States of America, Interior. Inclined-piston dead-weight pressure gauge. 3,195,354, 7-20-65, Cl. 73-419.
- Douthit, Loren B., and E. G. Sage, to The George F. Cram Co., Inc. Educational device. 3,171,216, 3-2-65, Cl. 35-17.
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- Dover, David J., to Doray Lamp Co., Inc. Signal lamp. 3,189,738, 6-15-65, Cl. 240-11.2.
- Dover, George K., to Dynacone Inc. Ski pole. 3,199,686, 8-10-65, Cl. 280-11.37.
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Re, Frank M. 3,166,353.

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- Eckhardt, Wilfried O., to United States of America, Navy. High speed amplifying modulation-demodulation logic. 3,189,839, 6-15-65, Cl. 830-10.
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- Eckhoff and Slick: See—
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- Eckley, Dorothy L. Combined dispensing carton and measuring cup. 3,195,782, 7-20-65, Cl. 222-158.
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- Dobblins, Walter J., Ecklund, and Polka. 3,186,028.
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- Eckman, Richard E.: See—
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- Eckold, Walter. Manually or power driven apparatus for the upsetting of sheet metals or profiles. 3,171,303, 3-2-65, Cl. 72-352.
- Eckrich, Peter, & Sons, Inc.: See—
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- Eckstein, Emil L. High density recorder utilizing low tape speed. 3,197,575, 7-27-65, Cl. 179-100.2.
- Eckstein, George R.: See—
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- Becker, John E. 3,200,595.
- Eclipse Fuel Engineering Co.: See—
- Jackson, Herbert N. 3,170,443.
- Stadler, Albert. 3,189,043.
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- Kline, John C. 3,206,759.
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- Lovett, William E., and Harrington. 3,225,665.
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- Econ-O-Post Corp.: See—
- Krupotich, Edward A. 3,220,547.
- Edberg, Edwin A., to Koppers Co., Inc. Apparatus for making foamed polymeric structures. 3,178,768, 4-20-65, Cl. 18-4.
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- Eddins, Timothy O., to United States of America, National Aeronautics and Space Administration. Missile launch release system. 3,224,336, 12-21-65, Cl. 89-1.7.
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- Eddy, Newell A., III, to Habitant Fence, Inc. Portable screening apparatus. 3,216,432, 11-9-65, Cl. 135-5.
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- Edel, Ralph R., to Radio Corp. of America. Electron dynamic beam convergence apparatus for color receiver. 3,187,218, 6-1-65, Cl. 815-22.
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- Eder, Heinz, to Wacker-Chemie G.m.b.H. Stable aqueous emulsions of organohydrogensiloxanes containing a water-soluble aldehyde. 3,223,665, 12-14-65, Cl. 260-29.2.
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- Edgar, David M., and D. Kristof, to S.I. Handling Systems, Inc. Tow truck system and tow truck therefor. 3,174,439, 3-23-65, Cl. 104-88.
- Edgar, Eric C.: See—
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- Edgar, John B.: See—
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- Edgar, Robert F.: See—
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- Edgerton, Harold E. 3,179,897.
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- Hansen, Ramon D., and Bridenstine. 3,223,854.
- Hatcher, Charles R. 3,193,687.
- Kreyer, Lawrence S. 3,206,741.
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- Ward, William A. 3,223,884.
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- Edmondson, William S. Embossing process. 3,200,025, 8-10-65, Cl. 156-209.
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- Ednell, Daniel F., to Sandvikens Jernverks Aktiebolag. Method and device for assembling a hot top. 3,209,413, 10-5-65, Cl. 22-31.
- Ednell, Daniel F., J. O. Edström, and P. D. Davidson, to Sandvikens Jernverks Aktiebolag. Hot top for ingot mold. 3,178,783, 4-20-65, Cl. 22-147.
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- Edsmar, Kurt G., to Sandvikens Jernverks Aktiebolag. Traction-augmenting stud for a vehicle tire. 3,179,147, 4-20-65, Cl. 152-210.
- Edson, Gwynne I., to Western Electric Co., Inc. Gold plating. 3,214,292, 10-26-65, Cl. 117-227.
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- Edwards, Andrew W., to Westinghouse Electric Corp. Winding for electrical apparatus. 3,183,467, 5-11-65, Cl. 336-223.
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- Edwards, Bryant, to Illinois Tool Works Inc. Molding apparatus for rim structure of thin wall plastic container. 3,173,174, 3-16-65, Cl. 18-19.
- Edwards, Bryant, to Illinois Tool Works Inc. Container and lid. 3,173,051, 4-13-65, Cl. 220-60.
- Edwards, Bryant, to Illinois Tool Works Inc. Direct response valve. 3,185,174, 6-25-65, Cl. 137-533.21.
- Edwards, Bryant, to Illinois Tool Works Inc. Thin wall container with thickened rim structure. 3,190,530, 6-22-65, Cl. 229-15.
- Edwards, Bryant, to Illinois Tool Works Inc. Nestable cup. 3,208,631, 9-28-65, Cl. 220-97.
- Edwards, Bryant, to Illinois Tool Works Inc. Process and apparatus for forming plastic cups or the like. 3,218,379, 11-16-65, Cl. 264-93.
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- Edwards, Eric W. Dispensing apparatus for horizontally disposed articles. 3,168,212, 2-2-65, Cl. 221-39.
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- Edwards, Evan A., and A. J. Tucker, to Eastman Kodak Co. Anti-friction disk for strip material cartridge. 3,208,685, 9-28-65, Cl. 242-71.2.
- Edwards, Evan A., T. A. Munson, and J. A. Black, to Eastman Kodak Co. Film cartridge. 3,208,686, 9-28-65, Cl. 242-71.2.
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- Edwards, Harold A., to Nailsea Engineering Co. Ltd. Cleaning devices for gas filtering apparatus. 3,167,415, 1-26-65, Cl. 55-302.

- Edwards, Harold H.: See—
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- Edwards, Harold H., and V. L. Newhouse, to General Electric Co. Superconducting current multiplier utilizing inductive storage devices and diode switches. 3,219,841, 11-23-65, Cl. 307-88.5.
- Edwards, Harrison F., to Simmonds Precision Products, Inc. Mercurial capacitors for remote indication of pressure. 3,190,122, 6-22-65, Cl. 73-398.
- Edwards, Harrison F., to Simmonds Precision Products, Inc. Electrical indicating means. 3,199,100, 8-3-65, Cl. 340-373.
- Edwards, Harrison F., to Simmonds Precision Products, Inc. Liquid quantity gauge. 3,212,077, 10-12-65, Cl. 340-200.
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- Edwards, James F., Jr.: See—
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- Edwards, John O., and R. Thomson, to Her Majesty the Queen in Right of Canada, as represented by the Minister of Mines and Technical Surveys. Treatment of copper and nickel and their alloys. 3,216,821, 11-9-65, Cl. 75-76.
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- Edwards, Lawrence J., and J. P. Nigon, to Callery Chemical Co. Preparation of decaborane. 3,167,392, 1-26-65, Cl. 23-204.
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- Edwards, Lindell N., to Commander Board International, Inc. Signs. 3,225,477, 12-28-65, Cl. 40-142.
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- Edwards, Lyman P. Metal window construction. 3,173,179, 3-16-65, Cl. 20-52.
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- Edwards, Richard M., S. N. Robinson, and E. F. Sanders, to United States of America, Atomic Energy Commission. Fluidized bed reactor. 3,174,834, 3-23-65, Cl. 23-284.
- Edwards, Robert A., and D. C. Burkio, to Kaiser Aluminum & Chemical Corp. Refractory and reinforcement therefor. 3,199,478, 8-10-65, Cl. 110-99.
- Edwards, Robert B., to Eastman Kodak Co. Multistage extrusion screw and alternate filters. 3,193,877, 7-13-65, Cl. 18-12.
- Edwards, Robert L., to National Seating Co. Padded seat base. 3,165,307, 1-12-65, Cl. 267-80.
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- Edwards, Roger, J. E. Iversen, H. H. Loar, and I. M. Ross, to Bell Telephone Laboratories, Inc. Method of fabricating a semiconductor device. 3,189,973, 6-22-65, Cl. 29-25.3.
- Edwards, Stephen P.: See—
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- Edwards, Theodor B., to United States of America, Army. Multiple track steering application for a plurality of vehicles. 3,183,990, 5-18-65, Cl. 180-14.
- Edwards, Theodor B., to United States of America, Army. Adjustable height propeller and drive assembly. 3,187,709, 6-8-65, Cl. 115-41.
- Edwards, Theodor B., deceased; H. M. Edwards, executrix. Continuous torque two gear ratio electric motor. 3,191,080, 6-22-65, Cl. 310-118.
- Edwards, Theodor B., to United States of America, Army. Amphibious assault bridge. 3,208,087, 9-28-65, Cl. 14-1.
- Edwards, Wallace, to The Waltham Holdings Ltd. Removable window guard. 3,204,981, 9-7-65, Cl. 280-150.
- Edwards, Wallace B., Jr.: See—
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- Edwards, Walter M., to E. I. du Pont de Nemours and Co. Polyamide-acids, compositions thereof, and process for their preparation. 3,179,614, 4-20-65, Cl. 260-30.2.
- Edwards, Walter M., to E. I. du Pont de Nemours and Co. Aromatic polyimides and the process for preparing them. 3,179,634, 4-20-65, Cl. 260-78.
- Edwards, William R.: See—
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- Edwards, William R., to Esso Research and Engineering Co. Polymerization of olefins. 3,190,938, 6-22-65, Cl. 260-683.15.
- Edwards, William R., R. D. Wesselhoff, and B. B. Williams, to Esso Research and Engineering Co. Process for separating olefins. 3,173,968, 3-16-65, Cl. 260-683.2.
- Edwards, William R., R. D. Wesselhoff, and E. J. Pratt, to Esso Research and Engineering Co. Breaking emulsions. 3,179,603, 4-20-65, Cl. 252-325.
- Edwards, William R., and R. D. Wesselhoff, to Esso Research and Engineering Co. Re-extraction method. 3,217,055, 11-9-65, Cl. 260-677.
- Edwins, James I. Frame for two wheel vehicle. 3,212,791, 10-19-65, Cl. 280-275.
- Eeles, Edwin G., to Canada, Her Majesty the Queen in right of, as represented by the Minister of Mines and Technical Surveys. Rock drill with socket having a curved surface. 3,213,951, 10-26-65, Cl. 175-414.
- Eeles, Robert C.: See—
 Dowty, George H., Tinson, Eeles, and Andrews. 3,188,023.
- Effeny, Alan P.: See—
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- Eficax Industries Pty. Ltd.: See—
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- Efinger, William L., Jr., H. Struck, and W. Gross, to The A. C. Gilbert Co. Self-powered model paraglider. 3,204,368, 9-7-65, Cl. 46-78.
- Efinger, William L., Jr., and H. Struck, to The A. C. Gilbert Co. Toy powered flex wing. 3,222,816, 12-14-65, Cl. 46-78.
- Efka-Werke Fritz Klehn G.m.b.H.: See—
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- Eflin, Pascal J.: See—
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- Efron, Theodore, W. F. Hess, and M. J. Seidmon, to Theodore Efron Mfg. Co. Shower curtain. 3,222,689, 12-14-65, Cl. 4-149.
- Efron, Theodore, Mfg. Co.: See—
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- Eft, Neil W., and R. A. Miller, to The Babcock & Wilcox Co. Pulverizer. 3,199,797, 8-10-65, Cl. 241-117.
- Egan, John E., and D. M. Harvey, to Eastman Kodak Co. Time delay device. 3,169,405, 2-16-65, Cl. 74-3.5.
- Egbert, Charles W., to Borg-Warner Corp. Air conditioning systems. 3,167,116, 1-26-65, Cl. 165-22.
- Egbert, Robert B., to Chemical Process Corp. Oxidation catalyst. 3,211,671, 10-12-65, Cl. 252-437.
- Egbert, William R., to Lundstrom Laboratories, Inc. Fortified picker sticks. 3,172,429, 3-9-65, Cl. 139-157.
- Egbert, William R., to Lundstrom Laboratories, Inc. Method of producing picker sticks. 3,224,478, 12-21-65, Cl. 144-320.
- Ege, Hans, to Underwriters Safety Devices Co. Terminal blocks and connectors therefor. 3,193,794, 7-6-65, Cl. 339-192.
- Ege, Sigmund: See—
 Jaftrate, Nelson, Ege, and Schnur. 3,218,207.
- Ege, Sigmund, to Anaconda Wire and Cable Co. Electrical conductor. 3,164,670, 1-5-65, Cl. 174-128.
- Ege, Sigmund, to Anaconda Wire and Cable Co. Conductor strand. 3,180,925, 4-27-65, Cl. 174-102.
- Ege, Sigmund, to Anaconda Wire and Cable Co. Forming die. 3,191,374, 6-29-65, Cl. 57-138.
- Ege, Sigmund, and M. D. Schnur, to Anaconda Wire and Cable Co. Strand treating reel. 3,181,251, 6-4-65, Cl. 34-163.
- Egee, Walter W., and A. B. Smith, to Campbell Soup Co. Dispensing mechanism. 3,193,156, 7-6-65, Cl. 222-255.
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- Egerer, Donald F.: See—
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- Egerer, William E.: See—
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- Egerer, Melvin F., Romeo, Marsee, and Egerer. 3,207,490.

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Eggen, Donald T., and H. A. Morewitz, to North American Aviation, Inc. Reactor excursion fuse. 3,177,124, 4-6-65, Cl. 176-86.

Eggenberger, Markus A., and P. H. Troutman, to General Electric Co. Overspeed anticipation device. 3,198,954, 8-3-65, Cl. 290-40.

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Egger, Fridolin, deceased, by A. J. Rothenbühler, legal representative. Collapsible deck chair. 3,165,354, 1-12-65, Cl. 297-29.

Egger, Fridolin, deceased, by A. J. Rothenbühler, legal representative. Table of adjustable height. 3,174,443, 3-23-65, Cl. 108-117.

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Egger, Walter R., to United States Steel Corp. Slab turning device for scarfing and inspection. 3,189,192, 6-16-65, Cl. 214-1.

Egger, Walter R., to United States Steel Corp. Stepped table for supporting billets during inspection or scarfing. 3,193,115, 7-6-65, Cl. 214-1.

Eggers, George M., to General Motors Corp. Variable rate leaf spring suspension. 3,170,682, 2-23-65, Cl. 267-52.

Eggers, Gerhard: See—
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Eggers, Reinhold. Electric heating tube in which enlarged convolutions of filament coil act as filament supports. 3,223,875, 12-14-65, Cl. 313-273.

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Eggert, Joachim, to Voigtlander, A.G. Slide projector with variable aperture diaphragm for objective. 3,213,750, 10-26-65, Cl. 88-24.

Eggert, Joachim, and P. Schubmann, to Voigtlander A.G. Objective lens consisting of four independent lens units. 3,212,400, 10-19-65, Cl. 88-57.

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Eggert, Walter S., Jr., to The Budd Co. Methods and apparatus for welding sheet material. 3,178,550, 4-13-65, Cl. 219-62.

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Eggington, Wilfred J., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,174,569, 3-23-65, Cl. 180-7.

Eggington, Wilfred J., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,189,114, 6-15-65, Cl. 180-7.

Eggington, Wilfred J., and E. G. Tattersall, to Hovercraft Development Ltd. Vehicles for travelling over land and/or water. 3,185,159, 1-12-65, Cl. 180-7.

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Eggington, Wilfred J., and N. W. Lewis, to Vickers-Armstrongs (Engineers) Ltd. Air-cushion borne vehicles. 3,185,240, 5-25-65, Cl. 180-7.

Eggleston, Robert V.: See—
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Egglestone, Robert W., to Combustion Engineering, Inc. Recirculating system having partial bypass around the center wall. 3,213,835, 10-26-65, Cl. 122-406.

Eggleton, Oswald J. Means for folding in laundry operations. 3,170,684, 2-23-65, Cl. 270-62.

Eging, Henry B. Pitless well connector. 3,183,973, 5-18-65, Cl. 166-85.

Eglau, Hermann, to Regro Turschliesserfabrikation. Door closing device. 3,177,517, 4-13-65, Cl. 16-61.

Egler, Vernon C., and H. R. Morgan, to The Kendall Co. Method of filling suture package. 3,187,895, 2-2-65, Cl. 63-35.

Egleston, Harry B.: See—
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Monroe, Charles Z., and Egleston. 3,207,049.

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Egleston, Harry B., to Ex-Cell-O Corp. Carton breaker-tucker apparatus. 3,183,801, 5-18-65, Cl. 93-44.1.

Egleston, Harry B., to Ex-Cell-O Corp. Liquid filling apparatus. 3,195,781, 7-20-65, Cl. 222-148.

Egli, Alwin, to Schweizerische Industrie-Gesellschaft. Device for the production of bags. 3,182,570, 5-11-65, Cl. 93-12.

Eglowstein, Nathan H., to General Lighting Products Co. Pendant-mounted fluorescent-lighting system and fixture therefor. 3,192,380, 6-29-65, Cl. 240-51.11.

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Eguchi, Tamotsu, and T. Fujiwara, to Kurashiki Rayon Co. Ltd. Method of polymerization of formaldehyde. 3,204,012, 8-31-65, Cl. 260-537.

Eguchi, Tamotsu, K. Fujii, J. Ukida, and M. Matsumoto, to Kurashiki Rayon Co. Ltd. Process of polymerizing vinyl esters using dialkyl zinc compounds as catalysts. 3,211,711, 10-12-65, Cl. 260-59.1.

Eguchi, Yasukata, and S. Hanyu, to Janome Sewing Machine Co. Ltd. Selector locking arrangement for sewing machines. 3,208,417, 9-28-65, Cl. 112-158.

Eguchi, Yasukata, to Janome Sewing Machine Co. Ltd. Ornamental stitch sewing machine. 3,217,677, 11-16-65, Cl. 112-158.

Eguizabal, Fernando G. Apparatus for attaching animals in stables and sheds. 3,203,398, 8-31-65, Cl. 119-119.

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Ehlen, Jack W., and G. A. Frech, to McCulloch Corp. Solid toe router saw chain. 3,170,497, 2-23-65, Cl. 143-135.

Ehler, Arthur W., to United States of America, Atomic Energy Commission. Method and apparatus for producing a magnetically confined hot dense plasma. 3,218,235, 11-16-65, Cl. 176-5.

Ehlerfs, John F., to The Boeing Co. Combined current and voltage launcher for microwave cavity utilizing biconic plate. 3,210,694, 10-5-65, Cl. 333-21.

Ehlers, Arthur S., to Ametek, Inc. Fluid containing means. 3,203,913, 9-14-65, Cl. 138-125.

Ehlers, Gerhard F. L., to United States of America, Air Force. Automatic recording vial type apparatus for heat distortion and melting point determinations. 3,187,556, 6-8-65, Cl. 73-17.

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Ehlers, Karlheinz. Liquid-dispensing nozzle with automatic cutoff. 3,224,472, 12-21-65, Cl. 141-209.

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Ehlert, Harry C., to Camco, Inc. Perforator initiating device. 3,176,770, 4-6-65, Cl. 166-55.1.

Ehlert, Harry C., to Camco, Inc. Magnetically actuated switching mechanism for well working tool. 3,198,904, 8-3-65, Cl. 200-87.

Ehlert, Ralph C., to General Electric Co. Moisture gage standards. 3,205,355, 9-7-65, Cl. 250-83.

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Ehmcke, Caspar J. Identification means for keys. 3,204,360, 9-7-65, Cl. 40-330.

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Ehrat, Kurt, to Gretag Aktiengesellschaft. Apparatus for simultaneously performing switching operations in spatially separated transmitter and receiving units. 3,210,730, 10-5-65, Cl. 340-147.

Ehreich, John E., to Chromerics, Inc. Radar antenna. 3,211,584, 10-12-65, Cl. 117-227.

Ehren, Irwin R., to The Lubrizol Corp. Coating composition. 3,207,611, 9-21-65, Cl. 106-14.

Ehren, Irwin R., and D. G. Ellis, to The Lubrizol Corp. Method for cleaning metal articles. 3,186,444, 1-19-65, Cl. 134-3.

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Ehrenfeld, John R., to Prototech Inc. Electrochemical structure. 3,206,333, 9-14-65, Cl. 136-86.

Ehrenfeld, John R., to Prototech Inc. Catalytic and electrochemical cell structures. 3,206,334, 9-14-65, Cl. 136-86.

Ehrenfreund, Herbert A., to The Lodge & Shipley Co. Mold charging apparatus. 3,220,058, 11-30-65, Cl. 18-80.

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Ehrenspeck, Hermann W. Endfire antenna construction. 3,218,646, 11-16-65, Cl. 343-819.

Ehresman, Virgil A., and C. D. Olson, to Sperry Rand Corp. Permanent switchable parametric device bias. 3,193,694, 7-6-65, Cl. 307-88.

Ehret, Charles. Board game with figurines. 3,175,825, 3-30-65, Cl. 273-135.

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Ehrhart, Wendell A., to Armstrong Cork Co. Polyurethane prepolymer stabilization with acids. 3,179,625, 4-20-65, Cl. 260-75.

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Ehringer, Hermann J., to Westinghouse Electric Corp. Method for making welding electrodes. 3,169,861, 2-16-65, Cl. 75-206.

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Ehrlich, Stanley V. Boom attachment for lift truck. 3,207,347, 9-21-65, Cl. 214-620.

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Eichhorn, Charles W. One way flow ventilator damper. 3,202,083, 8-24-65, Cl. 95-116.

Eichhorn, Jacob, to The Dow Chemical Co. Self-extinguishing urethane polymer compositions. 3,164,558, 1-5-65, Cl. 260-2.5.

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- Ellis, Frederick E., and P. J. Standbridge, to Automotive Products Co. Ltd. Power transmission systems providing automatic changes of gear ratio. 3,183,742, 5-18-65, Cl. 74-757.
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- Else, Robert K., and A. Talliste, to Automatic Electric Laboratories, Inc. Relay construction. 3,188,424, 6-8-65, Cl. 200-87.
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- Entel, Irving. Stacking type pallet. 3,177,823, 4-13-65, Cl. 108-53.
- Entenmann, Charles E. Cake release cutter. 3,182,397, 5-11-65, Cl. 30-301.
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- Eolkin, Dave, to Gerber Products Co. Process for preparing reconstitutable food products. 3,197,312, 7-27-65, Cl. 99-204.
- Eolkin, Dave, to Gerber Products Co. Freeze drying. 3,210,861, 10-12-65, Cl. 34-5.
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- Epstein, Henry D., to Texas Instruments Inc. Plural heater unit thermally responsive motor protector. 3,192,345, 6-29-65, Cl. 200-122.
- Epstein, Herman, and A. E. Trollo, to Omnitronics, Inc. Control circuit for tape drive mechanism. 3,185,911, 5-25-65, Cl. 318-275.
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- Erbe, William W., to United States of America, Army. Fluid cooling of electrical conductors. 3,192,305, 6-29-65, Cl. 174-15.
- Erbert, Adelhard. Base mat. 3,220,681, 11-30-65, Cl. 248-118.
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- Erickson, Arnel T. Rotating roller machine. 3,221,619, 12-7-65, Cl. 94-50.
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- Ewerbring, Lars E. F., to Abitibi Power & Paper Co. Ltd. Process for the manufacture of hard, or semi-hard molded bodies of wood fiber material, preferentially wood fiber boards, having resistant, covering surface. 3,220,900, 11-30-65, Cl. 156-62.2.
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- Ewing, Albert L. Fishing lure. 3,177,604, 4-13-65, Cl. 43-17.5.
- Ewing, Bland. Continuous gas concentration cell energy conversion. 3,186,872, 6-1-65, Cl. 136-86.
- Ewing, Fred B., Jr. High speed sea going planing hull. 3,225,729, 12-28-65, Cl. 114-66.5.
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- Fagaly, Robert W. Ladder construction. 3,199,628, 8-10-65, Cl. 182-200.
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- Fagan, James W.: See—
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- Fagan, John W. and W. D. Method and apparatus for forming and reforming operations. 3,206,966, 9-21-65, Cl. 72-295.
- Fagan, Paul V., and E. R. Lieberman, to Johnson & Johnson. Acid depilation and extrudable fibril production from hide corium. 3,194,865, 7-13-65, Cl. 264-209.
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- Fager, Earl E., T. J. Oliver, J. F. Prokop, and A. C. Sinclair, to Abbott Laboratories. Method of preparing antibiotic M-188. 3,218,230, 11-16-65, Cl. 195-80.
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- Gustafson, Manfred W. 3,191,262.
- Faglie, Jack C., to Electric Products Engineering Corp. Polyphase electroresponsive apparatus. 3,184,644, 5-18-65, Cl. 317-46.
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- Fahler, Jerome A., to Honeywell Inc. Control apparatus. 3,224,275, 12-21-65, Cl. 73-304.
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- Fahn, Joseph B., and M. Schlicht. Ice cube dispenser. 3,217,940, 11-16-65, Cl. 222-183.
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- Fair, Irya E., to Bell Telephone Laboratories, Inc. Voltage-controlled nondispersive variable delay system utilizing modulation to pass signal and frequency-inverted signal through identical dispersive delay lines. 3,183,447, 5-11-65, Cl. 328-177.
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- Fairbairn, John D., to Texas Instruments Inc. Method for plating a support for a silicon wafer in the manufacture of a semiconductor device. 3,184,824, 5-25-65, Cl. 29-25.3.
- Fairbank, Murry N., to Polaroid Corp. Photographic process for speeding development using electric current. 3,220,836, 11-30-65, Cl. 96-29.
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- Falco, Vito A. Food product assembly device. 3,221,672, 12-7-65, Cl. 107-1.
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- Falconer, Charles B., to Laboratory for Electronics, Inc. Counting circuit employing plural multi-cathode counting tubes. 3,171,059, 2-28-65, Cl. 315-84.6.
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- Falconer, David G. Electrical connector block. 3,215,973, 11-2-65, Cl. 339-198.
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- Falk, Richard B., to General Electric Co. Process for preparing magnetic materials. 3,198,717, 8-3-65, Cl. 204-10.
- Falk, Ronald E., to General Electric Co. Circuit breaker with magnetic trip adjusting means. 3,181,041, 4-27-65, Cl. 317-176.
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- Falotico, Vincent L. Selectively operated stacked columns for controlling amount of discharge from flush tank. 3,186,007, 6-1-65, Cl. 4-37.
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- Fann, James D. Mixing and measuring device. 3,204,821, 9-7-65, Cl. 222-41.
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- Faulkes, Kenneth M., to The English Electric Co. Ltd. Apparatus for generating alternating current. 3,200,323, 8-10-65, Cl. 322-28.
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- Faulkner, Enoch P., and J. W. Tuttle. Adjustable drop sprig for a fire sprinkler system. 3,194,316, 7-13-65, Cl. 169-37.
- Faulkner, Ernest D. Radio speaker attachment. 3,217,829, 11-16-65, Cl. 181-31.
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- Faulkner, Ottis V. Crimping tool. 3,180,128, 4-27-65, Cl. 72-409.
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- Faure-Herman, Jean. Meter for fluids. 3,177,710, 4-13-65, Cl. 73-230.
- Fauring, Frederik V. H. J. Apparatus for separating single threads from a lease. 3,197,838, 8-3-65, Cl. 28-43.
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- Fausser, Ernest E., to The Goodyear Tire & Rubber Co. Stabilizing polyurethanes with tetra alkyl guanidines. 3,202,631, 8-24-65, Cl. 260-45.9.
- Fausser, Ernest E., and F. S. Farson, to The Goodyear Tire & Rubber Co. Destruction of unreacted isocyanato groups in polyurethane elastomers by exposure to steam. 3,190,857, 6-22-65, Cl. 260-77.5.
- Faust, Claude M., and R. T. Fox. Electric signalling system for remotely spaced stations. 3,176,272, 3-30-65, Cl. 340-147.
- Faust, Donald M., to Cascade Corp. Article-handling apparatus with pusher and anchor means mounted on a vertically movable subframe. 3,197,053, 7-27-65, Cl. 214-514.
- Faust, Francis S., to R. G. Wright Co., Inc. Trash and garbage can washer. 3,203,437, 8-31-65, Cl. 134-148.
- Faust, Howard L., and R. Garland, to Ingersoll-Rand Co. Tool holding assembly. 3,185,004, 5-25-65, Cl. 82-37.
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- Faust, Martin H., to Penn-Dale Knitting Mills, Inc. Foundation garment. 3,178,911, 4-20-65, Cl. 66-177.
- Faust, Walter, to Telefoban and Normalzeit G.m.b.H. Device for making strips of predetermined length from a sheet material wound to form a roll. 3,170,614, 2-23-65, Cl. 226-134.
- Faust, William A., to A. O. Smith Corp. Heavy duty spot welding apparatus and method. 3,200,235, 8-10-65, Cl. 219-127.
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- Favin, David L., to Bell Telephone Laboratories, Inc. Test-signal generator producing outputs of different frequencies and configurations from flip-flops actuated by selectively phased pulses. 3,188,486, 6-8-65, Cl. 307-88.5.
- Favre, Edward A. Tape dispenser. 3,187,968, 6-8-65, Cl. 225-56.
- Favre, Jacques J. Multi-purpose stocking assembly. 3,169,640, 2-16-65, Cl. 211-126.
- Favre, John A., to Phillips Petroleum Co. Method of making inherently stable jet fuels. 3,216,929, 11-9-65, Cl. 208-312.
- Favre, Maurice, to United States of America, Army. Sole for M-type travelling wave tubes. 3,182,225, 5-4-65, Cl. 315-39.3.
- Favre, Maurice, to Compagnie Generale de Telegraphie Sans Fil. Magnetic field strength reduction near collector of M-type travelling wave tube. 3,197,672, 7-27-65, Cl. 315-39.3.
- Favre, Robert, to Fabriques Movado. Time base, preferably for an electric time measuring device. 3,173,036, 3-9-65, Cl. 310-15.
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- Favre, Robert, to Manufacture des Montres Universal Perret Freres SA. Coupling system for the stages of a bidirectional pulse counter. 3,218,507, 11-16-65, Cl. 315-84.6.
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- Fay III, Louis E., to Ex-Cell-O Corp. Magnetic recording by means of a thermal transducer. 3,187,335, 6-1-65, Cl. 346-74.
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- Fecho, Rhine G., to Whirlpool Corp. Method of breaking adhesion of wet clothes to the walls of a rotary extractor. 3,194,398, 7-13-65, Cl. 210-78.
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- Fekete, Joseph. Adjustable headgear. 3,179,953, 4-27-65, Cl. 2-197.
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- Felix, Ernst, to Zellweger Ltd. Force measuring apparatus. 3,206,971, 9-21-65, Cl. 73-141.
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- Fenwick, Charles M., to The SKF Ball Bearing Co. (Proprietary) Ltd. Universal joints. 3,167,934, 2-2-65, Cl. 64-7.
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- Fettig, Arthur J., D. M. Jenks, C. Lasdine, E. P. Maldment, and B. A. Runde, to Burroughs Corp. Accounting apparatus. 3,195,810, 7-20-65, Cl. 235-60.
- Fettkether, Louis H. Wire splicing tool. 3,213,899, 10-26-65, Cl. 140-118.
- Fetty, Hugh J. Meat product with non-shrink binder material. 3,216,827, 11-9-65, Cl. 99-108.
- Fetzer, Paul J., to Eltra Corp. Transparent package. 3,178,019, 4-13-65, Cl. 206-78.
- Fetzer, Frederick, to Holymatic Corp. Stepping device. 3,222,935, 12-14-65, Cl. 74-352.
- Fetzer, Maurice C.: See—
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- Feuer, Henry, and R. S. Anderson, to Purdue Research Foundation. Process for the production of α,ω -dinitroalkanes. 3,213,147, 10-19-65, Cl. 260-644.
- Feuer, Irving, to Canrad Precision Industries, Inc. Electroluminescent condenser. 3,175,116, 3-23-65, Cl. 313-108.
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- Feuersanger, Alfred E., to General Telephone and Electronics Laboratories, Inc. Method of making titanium dioxide capacitors. 3,220,880, 11-30-65, Cl. 117-213.
- Feuge, Reuben O., and W. Landmann, to United States of America, Agriculture. Process of preparing stable triglycerides of fat forming acids. 3,170,799, 2-23-65, Cl. 99-118.
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- Fewel, Kenneth J., G. P. Schell, and B. R. Winborn, to Ling-Temco-Vought, Inc. Vehicle with pneumatic support. 3,170,533, 2-23-65, Cl. 180-9.2.
- Fey, Alfred, H. Haberbosch, and R. Thomas; said Haberbosch and said Thomas assors. to said Fey. Support for photographic instruments and the like. 3,211,406, 10-12-65, Cl. 248-183.
- Feytis, Jean: See—
- Carton, Jean, Feytis, and Fouquet. 3,195,178.
- Fezenko, Igor: See—
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- Fiala, Ernst J. H.: See—
- Wilfert, Karl, and Fiala. 3,174,682.
- Fiala, Ernst J. H., and R. Andres, to Daimler-Benz Aktiengesellschaft. Plug-in connections. 3,215,455, 11-2-65, Cl. 255-233.
- Fiala, George T.: See—
- Moyer, Donald W., and Fiala. 3,209,872.
- Fiala, Richard J., to A. E. Staley Mfg. Co. Refining soybean oil. Re. 25,796, 6-8-65, Cl. 260-424.
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Fiedler, Howard C., to General Electric Co. Process of retaining a dispersed second phase until after the texture developing anneal. 3,214,303, 10-26-65, Cl. 148-111.

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Fiedler, William S., S. O., Fiedler, deceased (by W. S. Fiedler, administrator), J. W. Frost, and J. M. Diehl. Internal combustion engine starting device and method. 3,187,735, 6-8-65, Cl. 123-187.5.

Fiedler, William S., J. W. Frost, and J. M. Diehl. Introducing combustion fluid to internal combustion engine air cleaner. 3,205,882, 9-14-65, Cl. 123-187.5.

Fiedler, William S., and J. M. Diehl, to LOR Corp. Light weight structural material and means for making. 3,224,846, 12-21-65, Cl. 29-183.5.

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Field, Henry M., and B. A. Anderegg, to Dayton Abrasive Products, Inc. Assembly of abrasive elements. 3,225,916, 12-28-65, Cl. 206-56.

Field, Herbert C., and W. Wenger, to General Motors Corp. Vehicle body sunshade. 3,199,913, 8-10-65, Cl. 296-97.

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Field, Philip M., to Charles Beseler Co. Slide-actuate switch for photographic projector. 3,190,174, 6-22-65, Cl. 88-26.

Field, Philip M., and S. Mandel, to Charles Beseler Co. Manually adjustable overhead projector mounted on a desk. 3,207,029, 9-21-65, Cl. 88-24.

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Field, Sheldon B., to John J. McMullen Associates, Inc. Flume stabilization system for tankers and the like. 3,164,120, 1-5-65, Cl. 114-125.

Field, Sheldon B., to John J. McMullen Associates, Inc. Combination stabilization and heeling system for ice breakers. 3,192,888, 7-6-65, Cl. 114-125.

Field, Sheldon B., to John J. McMullen Associates, Inc. Tank stabilizing system for a ship and the like. 3,195,497, 7-20-65, Cl. 114-125.

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Fielder, William V., Jr., to Ox Fibre Brush Co., Inc. Broom handle brace. 3,218,661, 11-23-65, Cl. 15-145.

Fielder, William V., Jr., to Ox Fibre Brush Co., Inc. Broom handle joint brace. 3,218,662, 11-23-65, Cl. 15-145.

Fieldgate, Ivan O., to Potter Instrument Co., Inc. Continuous tape system. 3,184,131, 5-18-65, Cl. 226-97.

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Fielding, Robert L. Underbody spare tire and wheel carrier. 3,223,263, 12-14-65, Cl. 214-454.

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Fields, Ellis K., to Standard Oil Co. Copolymers of dialkenyl sulfone and ethylenically unsaturated monomers. 3,173,870, 3-16-65, Cl. 252-47.5.

Fields, Ellis K., to Standard Oil Co. Carboxyarylphosphonates. 3,178,469, 4-13-65, Cl. 260-461.

Fields, Ellis K., to Standard Oil Co. Dialkyl trihalomethylphosphonate-olefin adducts. 3,193,570, 7-6-65, Cl. 260-461.

Fields, Ellis K., to Standard Oil Co. Lubricants containing benzalalkylimine copolymers. 3,206,404, 9-14-65, Cl. 252-50.

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Fields, John H. C. H. Propster, Jr., and D. W. Masters, to General Electric Co. Data processing system including plural peripheral devices with means for the selection and operation. 3,225,334, 12-21-65, Cl. 340-172.5.

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Fields, Joseph E., to Monsanto Co. Hydrocarbon oils of reduced foaming properties. 3,166,508, 1-19-65, Cl. 252-51.5.

Fields, Joseph E., and E. H. Mottus, to Monsanto Co. Mineral oil composition. 3,192,165, 6-29-65, Cl. 252-56.

Fields, Joseph E., and J. H. Johnson, to Monsanto Co. Mineral oil compositions. 3,201,351, 8-17-65, Cl. 252-56.

Fields, Lawrence L., and G. R. Johnson, to Sinclair Research, Inc. Sampling apparatus. 3,218,869, 11-23-65, Cl. 73-425.4.

Fields, Louis G. Blood oxygenator and pump apparatus. 3,204,631, 9-7-65, Cl. 128-214.

Fields, Mack R., to Roehr Products Co., Inc. Tamper proof closure. 3,208,649, 9-28-65, Cl. 222-541.

Fields, Mack R., to Roehr Metals & Plastics Co. Closure and method of making same. 3,224,616, 12-21-65, Cl. 215-7.

Fields, Marvin C., and R. D. Rice, to United States Steel Corp. Method of recovering ammonia. 3,186,795, 6-1-65, Cl. 29-196.

Fields, Paul R., M. H. Zirin, and L. Stein, to United States of America, Atomic Energy Commission. Process of making radon fluoride and of separating rare gases from each other. 3,185,548, 5-25-65, Cl. 23-205.

Fields, Reuben T., to E. I. du Pont de Nemours and Co. Extrusion apparatus. 3,170,190, 2-23-65, Cl. 18-12.

Fields, Roger Q., to Schlumberger Well Surveying Corp. Well bore apparatus. 3,174,547, 3-23-65, Cl. 166-55.1.

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Fields, Thomas L., R. G. Wilkinson, and A. S. Kende, to American Cyanamid Co. Substituted 4,10-dioxo-5-hydroxy-1,2,3,4,4a,9,9a,10-octahydroanthracenes. 3,167,579, 1-26-65, Cl. 260-465.

Fields, Thomas L., R. G. Wilkinson, and A. S. Kende, to American Cyanamid Co. Substituted 2-nitromethyl-4, 10-dioxo-5-hydroxy-1,2,3,4,4a,9,9a,10-octahydroanthracenes. 3,192,250, 6-29-65, Cl. 260-471.

Fieldsend, Peter C., to Girling Ltd. Braking systems for vehicles. 3,165,177, 1-12-65, Cl. 188-152.

Fieldsend, Peter C., to Girling Ltd. Dual pedal actuating mechanism. 3,178,961, 4-20-65, Cl. 74-480.

Fieni, Walter, to Francaise du Ferodo, Societe Anonyme. Means for extracting air from the body of a vehicle. 3,202,076, 8-24-65, Cl. 98-2.

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Welchman, Roger L., and Fierce. 3,223,723.

Fierce, William L., and A. F. Millikan, to The Pure Oil Co. Process for removing sulfur from Diesel oils. 3,197,400, 7-27-65, Cl. 208-231.

Fierce, William L., W. J. Sandner, and R. L. Welchman, to The Pure Oil Co. Method of preparing cyanogen. 3,199,951, 8-10-65, Cl. 23-151.

Fierstine, Burton A., to General Motors Corp. Ball joint unit with combination thread protector and seal retainer. 3,199,902, 8-10-65, Cl. 287-87.

Fies, Richard D., and W. W. Johnston, to West-Wood Processing Corp. Process of drying wood by oil immersion and vacuum treatment to selected moisture content with oil recovery. 3,205,589, 9-14-65, Cl. 34-9.5.

Fignashau, James K., and W. H. Hainer, to General Mills, Inc. Billet handling apparatus. 3,198,366, 8-3-65, Cl. 214-652.

Figge, Carroll C. Safety float valve. 3,191,799, 6-29-65, Cl. 220-90.

Figge, Carroll C. Tubeless heating kettle. 3,220,403, 11-30-65, Cl. 126-843.5.

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Figuerski, Leonard J. Removable wall panel and separate cabinet simulating fireplace and flue therefor. 3,216,774, 11-9-65, Cl. 312-204.

Fike, Harold L., to International Minerals & Chemical Corp. Hydrolysis of pyrrolidone carboxylic acid. 3,178,474, 4-13-65, Cl. 260-534.

Fike, Louis T., to Super Mold Corp. of California. Electric heating unit for tire matrices. 3,170,193, 2-23-65, Cl. 18-33.

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Fikentscher, Friedrich, to L. & C. Steinmuller, G.m.b.H. Multi-stage spring band air preheater. 3,189,083, 6-15-65, Cl. 165-7.

Fikentscher, Hans K., Herrie, L. Schlemmer, and H. Wagner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cast films from polyvinyl chloride or vinyl chloride copolymers. 3,171,873, 3-2-65, Cl. 264-216.

Fikentscher, Hans K., Herrie, G. Winter, A. Mueller, J. G. Reich, and H. Voss, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process of surface sizing paper with stable cation-active plastic dispersions. 3,174,874, 3-23-65, Cl. 117-155.

Fikentscher, Rolf: See—
Brandels, Hans, Petersen, and Fikentscher. 3,190,741.
Brandels, Hans, Petersen, and Fikentscher. 3,190,742.

Filak, Andrew M. Modular docking and utility system. 3,191,565, 6-29-65, Cl. 114-5.

Filander, Arthur H., to The Black and Decker Mfg. Co. Quick release latching means for separable case adapted to be telescoped within a housing. 3,186,878, 6-1-65, Cl. 136-173.

Filander, Arthur H., to The Black and Decker Mfg. Co. Trigger locking means for hand-portable power-operated device. 3,194,084, 7-13-65, Cl. 74-527.

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Coffield, Thomas H., and Filbey. 3,192,910.

Filbey, Allen H., to Ethyl Corp. Cyclopentadiene iron tricarbonyls. 3,178,463, 4-13-65, Cl. 260-439.

Filchak, Robert W.: See—
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File, William G. Stock tank water heater. 3,186,402, 6-1-65, Cl. 126-360.

Filer, James L.: See—
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Filer and Stowell Co., The: See—
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Filles, William C., to McGraw-Edison Co. Operating means for tub door. 3,165,226, 1-12-65, Cl. 220-41.

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Filipov, Alexander M., to United States of America, Navy. Simulated radiation detector. 3,208,159, 9-28-65, Cl. 35-1.

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- Fisher, Donald M., and J. E. Linnell, to Radio Corp. of America. Print registration control means in high speed printers. 3,183,830, 5-18-65, Cl. 101-93.
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- Fisher, Eugene A.: See—
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- Fisher, Everett H., to Western Electric Co., Inc. Method of molding. 3,192,298, 6-29-65, Cl. 264-294.
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- Fisher, Frank J. Protective housing for meter equipment. 3,183,714, 5-18-65, Cl. 73-273.
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- Fisher, George C. Chute launcher. 3,209,487, 10-5-65, Cl. 46-86.
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- Fisher, George W.: See—
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- Fisher, Harland S., to United States Envelope Co. Indexing mechanism for paper cup machines. 3,195,373, 7-20-65, Cl. 74-822.
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- Fisher, Henry B., and D. W. Peacock, to Phillips Petroleum Co. Use of N-acyl sarcosines in miscible flooding. 3,212,575, 10-19-65, Cl. 166-9.
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- Fisher, James F.: See—
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- Fisher, James I.: See—
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- Fisher, John C., to General Electric Co. Connection insulators for dynamoelectric machine windings. 3,219,857, 11-23-65, Cl. 310-71.
- Fisher, John T. Controlled fuel limiter. 3,182,709, 5-11-65, Cl. 158-36.3.
- Fisher, Joseph C., and L. L. Winter, to Union Carbide Corp. Oxidation resistant carbon refractory articles. 3,174,872, 3-23-65, Cl. 106-56.
- Fisher, Joseph D., to Armour Pharmaceutical Co. Process for preparing adrenal gland stimulating substance. 3,192,115, 6-29-65, Cl. 167-74.
- Fisher, Joseph V.: See—
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- Fisher, Joseph V. Manufacture of materials capable of amplifying wave energy. 3,203,899, 8-31-65, Cl. 252-62.5.
- Fisher, Jules. Remote control movement system including a unit for variably positioning a light source device and a controller therefor. 3,209,136, 9-28-65, Cl. 240-3.
- Fisher, Julian V., to Illinois Tool Works Inc. Positioning tool for electrical components. 3,218,695, 11-23-65, Cl. 29-203.
- Fisher, Keith L., to Pye Ltd. Volume compression circuits. 3,215,940, 11-2-65, Cl. 330-3.
- Fisher, Lawrence C.: See—
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- Fisher & Ludlow Ltd.: See—
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- Fisher, Manuel, to Perfect Fit Industries, Inc. Toilet tank cover set. 3,166,112, 1-19-65, Cl. 150-52.
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- Fisher, Simon, to National Electric Welding Machines Co. Roller-electrode welder. 3,175,071, 3-23-65, Cl. 219-81.
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- Fisher, Stanton E. Colled rawhide animal toy. 3,198,173, 8-3-65, Cl. 119-29.
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- Fisher, Sterling, to Electro-Mechanical Research, Inc. Condition measuring systems. 3,177,726, 4-13-65, Cl. 73-407.
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- Fisher, William F., to Fisher Gauge Works, Ltd. Apparatus for assembly die casting. 3,209,417, 10-5-65, Cl. 22-68.
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- Fisher, William T., to Bristol Aerojet Ltd. Reinforced skin structures. 3,173,520, 3-16-65, Cl. 189-34.
- Fishman, Adolph, to Talb Industries, Inc. Stripping resists from printing plates. 3,175,907, 3-30-65, Cl. 96-36.
- Fishman, Bernard, and F. Ryder, to Flo-Tron Inc. Mass flowmeter. 3,198,009, 8-3-65, Cl. 73-211.
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- Fisk, Alexander G. Examination and treatment table for veterinary use. 3,208,432, 9-28-65, Cl. 119-103.
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- Fisk, Wooster H., and H. A. Keller. Skin diver's compass. 3,210,859, 10-12-65, Cl. 33-222.
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- Fitch, Howard M., to Engelhard Industries, Inc. Palladium decorating compositions. 3,216,834, 11-9-65, Cl. 106-1.
- Fitch, John C. Stowable luggage rack. 3,181,753, 5-4-65, Cl. 224-29.
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- Fitzer, Erich, and O. Vohler, to Planawerke Aktiengesellschaft für Kohlefabrikate. Nuclear fuel element with carbon jacket. 3,212,989, 10-19-65, Cl. 176-71.
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- Fitzgerald, John V. Radiation responsive dynamic mechanical system. 3,207,900, 9-21-65, Cl. 250-83.3.
- Fitzgerald, Robert E. Singular actuation for plural feeding and cutting means in stamp vending machines. 3,176,562, 4-6-65, Cl. 83-233.
- FitzGerald, Robert E., to United-Carr Inc. Lamp socket. 3,182,279, 5-4-65, Cl. 339-59.
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- Forkner, John H., to The Pillsbury Co. Method of manufacturing a food product. 3,221,675, 12-7-65, Cl. 107-54.
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Foster, Gerald L., and A. R. Hendrickson, to The Dow Chemical Co. Method of drying particulate solids. 3,210,272, 10-5-65, Cl. 210-39.

Foster Grant Co., Inc.: See—
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Cserny, Zoltan L., and Eyles. 3,173,571.
Elrich, Frederick R., and Wiinikainen. 3,210,304.
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Flacher, Reiner. 3,178,771.
Kaplan, Clifford F. 3,184,059.
Pavlin, James S., and Finestone. 3,189,570.
Pavlin, James S., and Finestone. 3,189,571.

Foster, Harold M., to American Cyanamid Co. Phenol sulfide nickel amine derivatives. 3,215,717, 11-2-65, Cl. 260-439.

Foster, Harold S., and R. L. Legg, to General Electric Co. Steam iron. 3,175,318, 3-30-65, Cl. 38-77.

Foster, Harry C., to Olin Mathieson Chemical Corp. Magazine and target feeding apparatus. 3,189,015, 6-15-65, Cl. 124-47.

Foster, Harry C., to Commercial Solvents Corp. Blasting cartridges. 3,211,095, 10-12-65, Cl. 102-25.

Foster, Harry C., to Olin Mathieson Chemical Corp. Target throwing apparatus having automatically varied throwing angle. 3,225,754, 12-28-65, Cl. 124-9.

Foster, Herbert G., Jr., and E. H. Cornwell, to Swift & Co. Manufacture of cheese curd. 3,172,767, 8-9-65, Cl. 99-116.

Foster, Jack V., to American Machine & Foundry Co. Electromagnetic operators. 3,164,757, 1-5-65, Cl. 317-187.

Foster, Jack V., and P. A. Hanold, to American Machine & Foundry Co. Relays with improved organization of ratchet and contact assembly. 3,204,062, 8-31-65, Cl. 200-105.

Foster, James B. T. Portable bidets. 3,164,846, 1-12-65, Cl. 4-7.

Foster, James H., and P. E. Sterner, to Erie Technological Products, Inc. Method of making electric circuit assemblies. 3,203,075, 8-31-65, Cl. 29-155.5.

Foster, James L. Sequential electromagnetic control circuit for well explosive devices. 3,209,210, 9-28-65, Cl. 317-139.

Foster, James M., Jr. Device for use in arc welding. 3,187,158, 6-1-65, Cl. 219-130.

Foster, James R., to The Coats Co., Inc. Tire bead breaking apparatus. 3,180,392, 4-27-65, Cl. 157-128.

Foster, James R., to The Coats Co., Inc. Pneumatically powered tire changing stand. 3,212,552, 10-19-65, Cl. 157-117.

Foster, John A., to J. L. Clark Mfg. Co. Sheet metal container with plastic closure plug. 3,187,964, 6-8-65, Cl. 222-480.

Foster, John A., to J. L. Clark Mfg. Co. Covered container with removable tear strip. 3,211,323, 10-12-65, Cl. 220-54.

Foster, John A., and A. A. Rodick, to J. L. Clark Mfg. Co. Plastic wheel with sheet metal sidewall. 3,214,220, 10-26-65, Cl. 301-63.

Foster, John H., and L. J. Lawrence, to Texas Instruments Inc. Controlled rectifier supply for motor speed system. 3,214,667, 10-26-65, Cl. 318-345.

Foster, John V., to United States of America, National Aeronautics and Space Administration. Vibrating reticle star tracker. 3,219,828, 11-23-65, Cl. 250-203.

Foster, Julius E. Butt welding of annular surfaces or pipes end-to-end with scanning weld current. 3,192,355, 6-29-65, Cl. 219-67.

Foster, Julius E. Permanent magnet generator with automatic voltage regulation. 3,214,675, 10-26-65, Cl. 322-46.

Foster, Karl: See—
Albert, Paul A., and Foster. 3,165,428.

Foster, Kenneth W., to Shell Oil Co. Position locating device. 3,167,049, 1-26-65, Cl. 114-144.

Foster, Kenneth W., to Shell Oil Co. Meter compensating system. 3,176,514, 4-6-65, Cl. 73-229.

Foster, Kenneth W., to Shell Oil Co. Method and apparatus for determining the orientation or directional features of a well. 3,186,481, 6-1-65, Cl. 186-4.

Foster, Kenneth W., to Shell Oil Co. Underwater locating device. 3,222,634, 12-7-65, Cl. 340-3.

Foster, Kenneth W., and R. L. Geer, to Shell Oil Co. Underwater television camera mounting providing three directions of movement for the camera. 3,184,541, 5-18-65, Cl. 178-6.

Foster, Lawrence H., and H. E. Bush, to Foster Refrigerator Corp. Heating and cooling food storage cabinet. 3,199,579, 8-10-65, Cl. 195-48.

Foster, Leigh C., to Zenith Radio Corp. X-ray tube with adjustable electron beam cross-section. 3,192,425, 6-29-65, Cl. 313-57.

Foster, Leigh C., and P. E. Reeves, to Zenith Radio Corp. System for producing short pulses of X-ray energy. 3,171,030, 2-23-65, Cl. 250-95.

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Churchill, John A. 3,186,718.

Foster, Paul L. Adjustable top for boats and the like. 3,165,111, 1-12-65, Cl. 135-6.

Foster, Raymond F., to General Electric Co. Power supply for a transistorized stage in a broadcast receiver. 3,219,932, 11-23-65, Cl. 325-318.

Foster Refrigerator Corp.: See—
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Foster, Richard C.: See—
Newnam, John L. M., Slimcox, Foster, and Calvett. 3,216,878.

Foster, Robert D., and J. L. Thigpen, to Winco, Inc. Cabinet hardware for lowering and retracting a container. 3,224,827, 12-21-65, Cl. 312-266.

Foster, Robert E.: See—
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Cotterman, Almon Q. 3,211,887.
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Lee, Frank A., Von Wiesensthal, and Wagner. 3,182,638.
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Foti, Arem, to I-T-E Circuit Breaker Co. Dual metal electric switch. 3,206,568, 9-14-65, Cl. 200-48.

Fotis, Peter Jr., and R. M. Alm, to Standard Oil Co. Process for isomerizing alkyl benzenes. 3,172,918, 3-9-65, Cl. 260-668.

Fotsch, Arthur H., J. R. Finley, G. W. Ross, and R. F. Fischer, to Kearney & Trecker Corp. Car wheel horer with transfer mechanism. 3,188,890, 6-15-65, Cl. 77-3.

Fotsch, Arthur H., G. W. Ross, and R. F. Fischer, to Kearney & Trecker Corp. Machine tool. 3,189,164, 6-15-65, Cl. 198-22.

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Fougea, Edouard M., to Societe Anonyme Constructions Edmond Colinet. Moulding device for all materials, concrete, reinforced concrete, plastic products, ceramics and the like. 3,195,207, 7-20-65, Cl. 25-118.

Foulger, Oron G., to United States of America, Navy. Step-per motor control circuit. 3,225,277, 12-21-65, Cl. 818-138.

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Foulkes, Ronald M., to Associated Electrical Industries (Manchester) Ltd. Digital computers for data processing systems. 3,171,099, 2-23-65, Cl. 340-172.5.

Foulks, Robert B., to Kaiser Aluminum & Chemical Corp. Expandable mandrel. 3,215,357, 11-2-65, Cl. 242-68.2.

Foulks, Sidney M., to Socony Mobil Oil Co., Inc. Recovery method for petroleum. 3,205,943, 9-14-65, Cl. 166-9.

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Fountain, Eugene B., to Shell Oil Co. Catalyst recovery using sludge extraction. 3,201,495, 8-17-65, Cl. 260-683.74.

Fountain, Forrest R. Load indicator. 3,190,383, 6-22-65, Cl. 177-137.

Fountain, Gilbert, to United States of America, Navy. Rocket thrust neutralizer. 3,206,384, 9-28-65, Cl. 102-49.

Fountain, James L. Door hinge system. 3,225,381, 12-28-65, Cl. 16-132.

Fountain-Barber, Martin, to Dowty Mining Equipment Ltd. Fluid-responsive relief valve. 3,199,533, 8-10-65, Cl. 137-543.13.

Fouque, Martin, to Telefunken Aktiengesellschaft. Reproducing system. 3,214,519, 10-26-65, Cl. 179-1.

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Fouré, Claude D., to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Fluidized particle heat exchange. 3,199,212, 8-10-65, Cl. 34-10.

Fouré, Claude D., and A. M. Mihail, to Societe Nationale d'Etudes et de Construction de Moteurs d'Aviation. Process and devices of heat exchange and nuclear reactor embodying same. 3,205,147, 9-7-65, Cl. 176-61.

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Fourie, Robert W., R. L. Maycock, and G. H. Riesser, to Shell Oil Co. Alkyl alcohol production. 3,209,037, 9-28-65, Cl. 260-632.

Fournier, Erick P., to Burlington Industries, Inc. Method and apparatus for packaging stockings. 3,209,511, 10-5-65, Cl. 53-3.

Fournier, Joseph I. Universal precision transfer center punch. 3,192,640, 7-6-65, Cl. 83-189.

Fournier, Joseph I. Mechanism for straightening cylindrical bodies by automation. 3,208,250, 9-28-65, Cl. 72-10.

Fournier, Michel. Apparatus for extracting metal staples. 3,166,296, 1-19-65, Cl. 254-28.

Fournier, Robert F. Litter bag holder device. 3,188,031, 6-8-65, Cl. 248-95.

Fournier, Valmar: See—
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Fournillier, Christian. Boat construction. 3,191,200, 6-29-65, Cl. 9-6.

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Weimer, Charles L., and Fouse. 3,213,405.

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Foust, Charles W.: See—
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Foust, Harry D., to Ford Motor Co. Bimetal seal. 3,216,732, 11-9-65, Cl. 277-26.

- Fowkes, Frederick M.: See—
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- Fowle, Arthur A.: See—
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- Fowle, Irving H., and F. J. Emminger, to General Aniline & Film Corp. Film container. 3,206,016, 9-14-65, Cl. 206-52.
- Fowler, Alvah W. Line drag means for a spinning reel. 3,223,346, 12-14-65, Cl. 242-84.2.
- Fowler, Carl A., Jr. Whirling amusement device. 3,194,558, 7-13-65, Cl. 273-109.
- Fowler, Catherine Y.: See—
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- Fowler, Charles H. Short suspender. 3,164,845, 1-12-65, Cl. 2-325.
- Fowler, Charles P., to Walker Mfg. Co. Pressure measuring instrument. 3,209,597, 10-5-65, Cl. 73-401.
- Fowler, Charles P., and W. H. Powers, to Walker Mfg. Co. Exhaust system. 3,167,060, 1-26-65, Cl. 123-119.
- Fowler, Charles P., and E. C. Lentz, to Walker Mfg. Co. Muffler. 3,220,505, 11-30-65, Cl. 23-288.
- Fowler, Doctor E. Power operated hosiery extension machine. 3,197,094, 7-27-65, Cl. 223-77.
- Fowler, Elliot P., to United Kingdom Atomic Energy Authority. D.C. amplifiers. 3,191,126, 6-22-65, Cl. 330-9.
- Fowler, George W.: See—
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- Fowler, George W., S. P. Hersb., and A. T. Walter, to Union Carbide Corp. Polymeric organophosphonite stabilized halogen-containing vinyl resin solutions. 3,180,847, 4-27-65, Cl. 260-32.8.
- Fowler, Harry C. and H. L., deceased, by C. Y. Fowler, executrix. Garbage and trash disposal device. 3,171,447, 3-2-65, Cl. 141-95.
- Fowler, Harry L.: See—
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- Fowler, Max J., O. L. Landers, and E. Nagel, to Pneumafil Corp. Flats strips collection. 3,212,138, 10-19-65, Cl. 19-107.
- Fowler, Norman W., and H. A. Male, to The Gleason Works. Index mechanism. 3,166,954, 1-26-65, Cl. 74-822.
- Fowler, Peter H.: See—
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- Fowler, Peter H., to Sonus Corp. Piezoelectric filter. 3,189,851, 6-15-65, Cl. 333-72.
- Fowler, Peter H., and C. Kolm, to Sonus Corp. Frequency selective amplifier. 3,174,122, 3-16-65, Cl. 333-72.
- Fowler, Peter M., and L. F. C. Joy, to Wilmot-Breeden Ltd. Lockable adjustment means. 3,188,045, 6-8-65, Cl. 248-429.
- Fowler, Richard W. Orifice-in-series control for automatic float-operated gates. 3,176,469, 4-6-65, Cl. 61-22.
- Fowler, Robert M., and C. R. Bishop, to Union Carbide Corp. Test for determining corrosion resistance of stainless steel. 3,198,715, 8-3-65, Cl. 204-1.
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- Fowler, Vernal W. Frozen food rack. 3,172,538, 3-9-65, Cl. 211-49.
- Fowlkes, Robert E.: See—
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- Fox, Alfred E., B. S. Schwartz, and F. J. Turner, to Warner-Lambert Pharmaceutical Co. Method for preparing reticulo-endothelial system stimulant and stimulant thereof. 3,172,815, 3-9-65, Cl. 167-78.
- Fox, Alvin C., and G. G. Towry, to Texas Instruments Inc. Automatic control system for oil well heater. 3,175,076, 3-23-65, Cl. 219-494.
- Fox, Alvin C., and G. G. Towry, to Texas Instruments Inc. Electrical heater control system. 3,175,077, 3-23-65, Cl. 219-494.
- Fox, Anthony, to Propulsion Research, Inc. Propulsion device. 3,187,708, 6-8-65, Cl. 115-12.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Optical maser component. 3,179,899, 4-20-65, Cl. 331-94.5.
- Fox, Benjamin. Detachable connectors. 3,181,101, 4-27-65, Cl. 339-17.
- Fox, Billy E. Extinguisher for car ash tray. 3,194,247, 7-13-65, Cl. 131-237.
- Fox, Cecelia: See—
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- Fox, Charles, F. S. Morshauser, and P. Thau, to Warner-Lambert Pharmaceutical Co. Composition for skin beautification and treatment. 3,164,523, 1-5-65, Cl. 167-90.
- Fox, Charles J., to Eastman Kodak Co. Photographic products. 3,165,411, 1-12-65, Cl. 96-114.
- Fox, Charles J., to Eastman Kodak Co. Tri-isomylamine catalyst in a process for preparing a polycarbonate. 3,220,975, 11-30-65, Cl. 260-47.
- Fox, Charles R., to Metro Electronics Corp. Speaker assembly. 3,225,860, 12-28-65, Cl. 181-31.
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- Fox, Daniel M., to United States of America, Navy. Method of forming articles from ductile materials. 3,174,318, 3-23-65, Cl. 72-55.
- Fox, Daniel W., to General Electric Co. Epoxy modified polycarbonate resinous compositions. 3,220,974, 11-30-65, Cl. 260-47.
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- Fox, Edgar C., Jr., and R. L. Meyer, to Westinghouse Electric Corp. Load maneuvering apparatus. 3,189,195, 6-15-65, Cl. 214-14.
- Fox, Edwin F., and W. J. Clements, to Clements Mfg. Co. Hot air blower. 3,209,988, 10-5-65, Cl. 230-117.
- Fox, Elton B., to Amot Controls Corp. Temperature responsive safety control valve. 3,189,277, 6-15-65, Cl. 236-101.
- Fox, Elton B. Means for protecting the heater in a circulating liquid system. 3,224,675, 12-21-65, Cl. 237-8.
- Fox, Fred K. Well formation tester. 3,212,574, 10-19-65, Cl. 166-3.
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- Fox, Harold J. Marking gauge. 3,197,874, 8-3-65, Cl. 33-158.
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- Fox, Harold K., to Bemis Bro. Bag Co. Bag top closures for consumer size bags. 3,203,622, 8-31-65, Cl. 220-62.
- Fox, Harold L., and G. H. Thorne, Sr., to Sperry Rand Corp. Fluid control apparatus. 3,208,462, 9-28-65, Cl. 137-81.5.
- Fox, Herman H., to Hoffmann-La Roche Inc. Tri-(p-amino-benzoyl)esters of pantothenyl alcohol. 3,207,778, 9-21-65, Cl. 260-471.
- Fox, Homer M., to Phillips Petroleum Co. Two component amine nitrate monopropellants and method of propulsion. 3,212,254, 10-19-65, Cl. 60-35.4.
- Fox Industries, Inc.: See—
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- Fox, James E., to General Electric Co. Chromium base alloy. 3,205,847, 9-28-65, Cl. 75-176.
- Fox, James S., and J. H. De Bord, to The International Nickel Co., Inc. Method for fluid mold casting using casting slag. 3,214,806, 11-2-65, Cl. 22-209.
- Fox, James S., and J. H. De Bord, to The International Nickel Co., Inc. Slag composition for fluid mold casting. 3,224,887, 12-21-65, Cl. 106-38.27.
- Fox, Joseph M., 3rd, and J. C. Yarz, to Pullman Inc. Production of domestic heating gas. 3,201,214, 8-17-65, Cl. 48-214.
- Fox, La Verdo J., and S. R. Genson, to Johns-Manville Corp. Method and apparatus for traversing strand material. 3,169,717, 2-16-65, Cl. 242-43.
- Fox, Leonard H., to Raleigh Industries Ltd. Gear selector control mechanisms. 3,180,166, 4-27-65, Cl. 74-489.
- Fox, Leonard J.: See—
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- Fox, Lois J.: See—
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- Fox, Magnussen, Roy M. 3,199,618.
- Fox, Roth, Ellwood A. 3,204,677.
- Fox, Martin, to The Seng Co. Sofa bed. 3,205,511, 9-14-65, Cl. 5-41.
- Fox, Martin, to The Seng Co. Davenport bed. 3,209,377, 10-5-65, Cl. 5-13.
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- Fox Products Co.: See—
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- Fox, Ray. Soil-soaker hold-down. 3,199,817, 8-10-65, Cl. 248-87.
- Fox, Richard C., to California Research Corp. Candle composition. 3,216,921, 11-9-65, Cl. 208-21.
- Fox, Richard J., to United States of America, Atomic Energy Commission. Method for fabricating surface-barrier detectors. 3,163,915, 1-5-65, Cl. 29-25.3.
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- Fox, Robert L. Multiple railway tool machine. 3,187,429, 6-8-65, Cl. 29-564.
- Fox, Robert M.: See—
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- Fox, Robert M., and E. H. Klove, Jr., to General Motors Corp. Closure latch. 3,190,682, 6-22-65, Cl. 292-216.
- Fox, Robert P., to American Holst & Derrick Co. Cam-actuated band brake. 3,184,006, 5-18-65, Cl. 188-77.
- Fox, Robert T.: See—
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- Fox, Russell E., and A. V. Phelps, to Westinghouse Electric Corp. Apparatus for detecting electronegative gases in a mixture of gases. 3,211,996, 10-12-65, Cl. 324-33.
- Fox, Thomas A. Strip rolling apparatus. 3,172,313, 3-9-65, Cl. 80-38.
- Fox, Thomas A. Strip rolling method. 3,172,315, 3-9-65, Cl. 80-60.
- Fox, Uffa, 1/2, to Herbert Terry & Sons Ltd. Shock cushioned load platform for speed boats. 3,207,112, 9-12-65, Cl. 114-65.
- Fox, William C.: See—
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- Fox, William E. Dual liquid comparator gage and indicator. 3,214,840, 11-2-65, Cl. 33-172.
- Fox, William P. Multi-function portable cooking apparatus. 3,217,634, 11-16-65, Cl. 99-339.

- Fox, Zola, to Thiokol Chemical Corp. Relief valve for use with cryogenic fluids. 3,164,165, 1-5-65, Cl. 137-468.
- Fox, Zola, E. Elger, and W. S. Hosek, to Thiokol Chemical Corp. Universal tube joint with bearing inserts. 3,178,207, 4-13-65, Cl. 285-165.
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- Catheron, Allan R., Wood, and Howe. 3,196,900.
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- Foxwell, William J.: See—
Price, William R., and Foxwell. 3,168,146.
- Fox, Norbert E., and T. O. Williams, to Republic Steel Corp. Induction welding of tubing from hot strip. 3,196,241, 7-20-65, Cl. 219-8.5.
- Fox, Robert J., to Nordberg Mfg. Co. Fluid piston and cylinder assembly for use in railway tie cutters and the like. 3,190,324, 6-22-65, Cl. 144-2.
- Fox, Robert J., and E. H. Krause, Jr., to Nordberg Mfg. Co. Set-off device and method for railway machines. 3,182,604, 5-11-65, Cl. 105-177.
- Foy, Claudius P. Billiard cue with readily replaceable tip. 3,226,119, 12-28-65, Cl. 273-70.
- Foy, Richard, 1/2, to G. G. Well. Hydraulically adjustable razor blade. 3,213,553, 10-26-65, Cl. 37-144.
- Foy, William N. Food carrier. 3,164,257, 1-5-65, Cl. 211-74.
- Foye, Allen B.: See—
Pezutto, Michael, and Foye. 3,164,486.
- Foye, Allen B., to W. R. Grace & Co. Closure for containers. 3,182,843, 5-11-65, Cl. 215-44.
- Foyster, Frederick J.: See—
Beckman, Ronald, and Foyster. 3,192,099.
- Fracassi, Albert L. Hose reel. 3,199,529, 8-10-65, Cl. 137-355.26.
- Fracassi, Renato D.: See—
Abbott, Henry H., Brown, Depp, Fracassi, and Williams. 3,223,976.
- Fracke, Aribert: See—
Oehlrich, Karl-Helz, and Fracke. 3,226,580.
- Fradin, Samuel, to Globe Products Corp. Window shade bracket. 3,216,691, 11-9-65, Cl. 248-268.
- Fraddin, Joseph, to Potter Instrument Co., Inc. Return spring bumper for potter hammers. 3,166,010, 1-19-65, Cl. 101-93.
- Frady, William E., Jr., E. L. Woods, and R. M. MacIntyre, to Thompson Ramo Wooldridge Inc. Control system with rate prediction. 3,189,734, 6-15-65, Cl. 235-154.
- Fraenkel, Herbert, to Gunson's Sortex Ltd. Photosensitive apparatus for sorting translucent objects. 3,197,647, 7-27-65, Cl. 250-225.
- Fraenkel, Stephen J., to Stanray Corp. Device for forming corrugations in metallic sheet or plate. 3,203,214, 8-31-65, Cl. 72-182.
- Fraenzel, Edward H. Liquid fuel burner for outdoor dryer installations. 3,195,612, 7-20-65, Cl. 158-77.
- Fraga, Anthony: See—
Steinberg, Richard, and Fraga. 3,175,607.
- Fragen, Nathan, and J. G. Hundley, to Standard Oil Co. Manufacture of benzoic acid from toluene. 3,210,416, 10-5-65, Cl. 260-524.
- Fragrance Process Co., Inc. The: See—
Neuwald, Alfred A., and Donovan. 3,178,255.
- Frahm, Carl E.: See—
Reld, Otto S., Frahm, C. E. and S. E. 3,206,084.
- Frahm, Shirley E.: See—
Reld, Otto S., Frahm, C. E. and S. E. 3,206,084.
- Frainier, Richard J.: See—
Canty, John M., First, and Frainier. 3,207,353.
- Fraisse, George, to Houilleries du Bassin de Lorraine. Advance and position indicator for coal-cutter or like stoping machine. 3,220,011, 11-23-65, Cl. 346-33.
- Fralzy, Jean, and G. Finiels, to Societe Rhodaceta. Process of acetylating a specific kind of regenerated cellulose and recovering ingredients from the used acetylating bath. 3,215,490, 11-2-65, Cl. 8-121.
- Frakes, James H., and C. A. Bridges, to Westinghouse Electric Corp. Pressure-cap assembly for terminal bushings. 3,178,504, 4-13-65, Cl. 174-12.
- Frakes, James H., to Dielectric Instrument Corp. Portable insulation testing equipment adaptable for conversion from straight to inverted Scheringbridge operation. 3,189,818, 6-15-65, Cl. 324-54.
- Fram Corp.: See—
Fulford, Earle H., and Searcy. 3,201,924.
- Sawyer, William T. 3,224,591.
- Weatherston, Richard W., and Marshall. 3,220,707.
- Fram, Paul, to Minnesota Mining and Mfg. Co. Curable compositions of an organic acid anhydride and an alkylenimine derivative. 3,225,013, 12-21-65, Cl. 260-78.
- Frame, James M., to United States of America, Navy. High vacuum valve. 3,207,469, 9-21-65, Cl. 251-175.
- Frame (Societe Anonyme): See—
Belalef, James F., and Berthier. 3,178,916.
- Frame, William R., to South Chester Corp. Method of making partially hollow rivets and similar articles. 3,176,329, 4-6-65, Cl. 10-27.
- Frampton, D. B. & Co.: See—
Webster, John W. 3,172,170.
- Frampton, Ronald C., and D. B. Lowndes, to Macpennys Mist Propagation Ltd. Apparatus for watering plants. 3,216,663, 11-9-65, Cl. 236-68.
- Francaise du Ferodo, Societe Anonyme: See—
Fieni, Walter. 3,202,076.
- Le Brise, Raymond. 3,184,019.
- Lepelletier, Pierre A. G. 3,194,019.
- Maurice, Jean. 3,185,274.
- Maurice, Jean, and Le Brise. 3,213,988.
- Sudre, Pierre C. 3,190,397.
- France, Arnold. Attachment of jet propulsion units to water-borne craft and means for steering the unit. 3,207,116, 9-21-65, Cl. 115-12.
- France, George E., and J. Parker, to Automatic Poultry Feeder Co. Hog trough. 3,180,319, 4-27-65, Cl. 119-61.
- France, Joseph, to T.M.M. (Research) Ltd. Heating arrangements. 3,187,150, 6-1-65, Cl. 219-1049.
- France, L. D.: See—
Pattillo, Sidney M., and France. 3,200,570.
- France, L. D. & Co., Inc.: See—
Pattillo, Sidney M., and France. 3,200,570.
- France, Leonard L., L. S. Richardson, and D. H. Felsel, to Westinghouse Electric Corp. Tantalum base alloys. 3,166,414, 1-19-65, Cl. 75-174.
- France, Leonard L., A. I. Lewis, deceased (by B. J. Ambrose, administrator), R. L. Ammon, and L. S. Richardson, to Westinghouse Electric Corp. Tantalum base alloys. 3,183,085, 5-11-65, Cl. 75-174.
- Francel, Josef, and L. Spanoudis, to Owens-Illinois Glass Co. Method for cleaning glass-working tools. 3,218,140, 11-16-65, Cl. 65-27.
- Francesco Vismara S.p.A.: See—
Cavallini, Guido, and Massarani. 3,201,475.
- Franchi, Armand J., to International Telephone and Telegraph Corp. Audio actuated switch for transceiver transmitter. 3,169,221, 2-9-65, Cl. 325-15.
- Francia, Giovanni. Hydraulic brake systems for motor vehicles. 3,209,542, 10-5-65, Cl. 60-54.2.
- Francis, Alfred W., to Socony Mobil Oil Co., Inc. Concentration of selected aromatic hydrocarbons by extractive evaporation with ammonia. 3,177,263, 4-6-65, Cl. 260-674.
- Francis, Arthur W.: See—
Matsch, Ladislav C., and Francis. 3,166,511.
- Francis Associates: See—
Francis, Samuel A. 3,200,525.
- Francis, Charles E., to Shell Oil Co. Fire-resistant hydraulic fluids. 3,177,146, 4-6-65, Cl. 252-75.
- Francis, Charles E., to Shell Oil Co. Water-in-oil emulsion lubricant and hydraulic fluid. 3,192,159, 6-29-65, Cl. 252-33.6.
- Francis, Daniel V.: See—
Andrews, Eugene D., Francis, and Rode. 3,207,712.
- Francis, Frederick G., N. C. Huxford, J. A. Seaward, and G. H. Burton, to Caribonum Ltd. Electrophotographic photographic reproduction machines. 3,164,074, 1-5-65, Cl. 95-1.7.
- Francis, Gerald C. Prestressed concrete. 3,222,835, 12-14-65, Cl. 52-223.
- Francis, Gus, and J. A. Dunn; said Dunn assor. to said Francis. Method of rupturing walls. 3,196,791, 7-27-65, Cl. 102-23.
- Francis, John G., Jr. Form for cast concrete step and platform units. 3,212,155, 10-19-65, Cl. 25-118.
- Francis, John P. Adjustable automobile windshield awning. 3,174,195, 3-23-65, Cl. 20-57.5.
- Francis, John P. Frame supporting means for automobile windshield awning. 3,174,536, 3-23-65, Cl. 160-369.
- Francis, John P. Automobile rain visor and supporting means therefor. 3,205,000, 6-7-65, Cl. 286-9.
- Francis, John P. Retractable automobile windshield awning. 3,219,385, 11-23-65, Cl. 296-95.
- Francis, John P., and P. V. de la Cova, to Martin-Marletta Corp. Transponder automatic frequency control system. 3,183,441, 5-11-65, Cl. 325-13.
- Francis, Joseph A., to Honeywell Inc. Control apparatus. 3,168,717, 2-2-65, Cl. 338-31.
- Francis, Lynn M. Vehicle wheel and axle suspension. 3,220,746, 11-30-65, Cl. 280-124.
- Francis, Lynn M. End loading cargo vehicle. 3,225,709, 12-28-65, Cl. 105-455.
- Francis, Marlon D.: See—
Tucker, Nathaniel B., Francis, and Griebstein. 3,175,951.
- Francis, Philip L., to General Motors Corp. Engine block. 3,166,992, 1-26-65, Cl. 92-149.
- Francis, Philip L., to General Motors Corp. Refrigerating apparatus. 3,215,341, 11-2-65, Cl. 230-186.
- Francis, Robert N., to Phillips Petroleum Co. Control system. 3,219,051, 11-23-65, Cl. 137-118.
- Francis, Samuel A., to Francis Associates. Fluid read-out device. 3,200,525, 8-17-65, Cl. 40-130.
- Francis, Samuel A., A. W. Sinkinson, and C. B. Converse, to Sippicon Corp. Mounting assembly for modular electronic units. 3,209,208, 9-28-65, Cl. 317-101.
- Francis, Thomas H.: See—
De Pato, Anthony, and Francis. 3,220,498.
- Francis, William C.: See—
Honkins, Thomas R., Strickler, and Francis. 3,211,692.
- Phillips, Lee V., and Francis. 3,184,438.

- Francis, William C., to Gulf Oil Corp. Thermoplastic 5-allyl-isocyanurate polymer. 3,190,841, 6-22-65, Cl. 260-2.
- Francisco, Charles C., to Cambridge Systems, Inc. Dewpoint measuring system. 3,195,344, 7-20-65, Cl. 73-17.
- Francisco, Sherman G., to International Business Machines Corp. Analog-to-digital conversion means. 3,205,490, 9-7-65, Cl. 340-347.
- Francisco, William H., Jr., to Curtiss-Wright Corp. Toroidal drive hydraulic stop. 3,164,025, 1-6-65, Cl. 74-200.
- Francis, Abraham, to Sperry Rand Corp. Comparing stored and external binary digits. 3,195,108, 7-13-65, Cl. 340-146.2.
- Francis, Abraham, and A. V. Pohn, to Sperry Rand Corp. Magnetic bistable circuit. 3,189,749, 6-15-65, Cl. 307-88.
- Francis, Abraham, G. F. Marette, and B. I. Parsegian, to Sperry Rand Corp. Arithmetic system utilizing ferromagnetic elements having single domain properties. 3,192,388, 6-29-65, Cl. 235-175.
- Francis, George E., to Imperial-Eastman Corp. Ball pipe joint with composite ball member. 3,180,664, 4-27-65, Cl. 285-266.
- Francis, George E., to Imperial-Eastman Corp. Wrench. 3,198,040, 8-9-65, Cl. 81-55.
- Francis, George E., to Imperial-Eastman Corp. Swivel joint. 3,210,099, 10-5-65, Cl. 285-190.
- Francis, George E., to Imperial-Eastman Corp. Reinforced fluid control fitting. 3,219,366, 11-23-65, Cl. 285-190.
- Francis, George E., to Imperial-Eastman Corp. Tube connector with permanently assembled sleeve and nut elements. 3,219,367, 11-23-65, Cl. 285-238.
- Francis, Jack V., and P. S. Broadhead, to United States of America, Atomic Energy Commission. Photosensitive light beam location information device. 3,222,526, 12-7-65, Cl. 250-203.
- Frank, Kurt, to Holophane Co., Inc. Street lighting luminaires. 3,179,793, 4-20-65, 240-25.
- Frank, Kurt, to Holophane Co., Inc. Device for controlling glare in luminaire. 3,179,797, 4-20-65, Cl. 240-106.
- Frank, Kurt, and D. B. Welty, to Holophane Co., Inc. Luminaire. 3,187,176, 6-1-65, Cl. 240-106.
- Franko, Gianfranco, G. E. Lockett, N. Kinkad, and V. H. Sorensen, to United Kingdom Atomic Energy Authority. Plant for remote handling of nuclear fuel elements. 3,200,043, 8-10-65, Cl. 176-30.
- Franco, Sebastian J., to See—
- Larson, Merlyn O., and Franco. 3,166,081.
- Francois, Alex C., to See—
- Ashbridge, G. Harry, Casey, Francois, Lohan, Smith, and Mitchell. 3,218,518.
- Francois, Alex C., to Ex-Cell-O Corp. Clock writer for magnetic data storage devices. 3,196,420, 7-20-65, Cl. 340-174.1.
- Francois, Henri, to See—
- Blondeau, Emile, Doury, and Francois. 3,216,246.
- Francois, Paul L., to See—
- Humbert, Kingsley E., Jr., and Francois. 3,217,942.
- Francus, William J., Flaring tool. 3,176,492, 4-6-65, Cl. 72-75.
- Frane, John A., to See—
- Oldershaw, Charles G., and Frane. 3,215,094.
- Frangos, John W., Storage system apparatus. 3,217,905, 11-16-65, Cl. 214-16.1.
- Frangoulis, Stamatis I., to See—
- Newell, William H., Burgess, Zabb, and Frangoulis. 3,174,030.
- Frank, Adolf, and F. Grewe, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of thioram monosulfides. 3,169,990, 2-16-65, Cl. 260-567.
- Frank, Alan I., to United States of America, Air Force. Automatic range and azimuth track while scan system. 3,182,320, 5-4-65, Cl. 343-7.3.
- Frank, Andrew A., H. L. Ehlers, and R. O. Rogers, to North American Aviation, Inc. Helicopter flight control system. 3,175,786, 3-30-65, Cl. 244-17.13.
- Frank, Carl A., to Avisun Corp. Shear type cutter. 3,196,724, 7-27-65, Cl. 83-349.
- Frank, Charles. Self-locking bolt and nut. 3,168,915, 2-9-65, Cl. 151-31.
- Frank, Charles. Fastener-captive front panel. 3,180,389, 4-27-65, Cl. 151-69.
- Frank, Charles J., to Dolphin Seafoods, Inc. Frozen-food cutter. 3,196,917, 7-27-65, Cl. 146-169.
- Frank, Daniel L., to See—
- Elliott, James O., Frank, and Leland. 3,226,620.
- Frank, David S., F. B. Callanen, and V. A. Walter, to The Pure Oil Co. Liquid valve arrangement. 3,187,765, 6-8-65, Cl. 137-253.
- Frank, Edmund, to See—
- Packard, Lyle E., Buu, and Frank. 3,205,921.
- Frank, Edward J., to General Electric Co. Automatic reclosing circuit breaker. 3,191,096, 6-22-65, Cl. 317-22.
- Frank, Erich J., and L. W. Friedmann. Stimulating apparatus. 3,204,637, 9-7-65, Cl. 128-423.
- Frank, Gerald F., to General Electric Co. Power amplifier. 3,202,907, 8-24-65, Cl. 323-89.
- Frank, Gerhard R., to See—
- Zorn, Hermann, and Frank. 3,205,259.
- Frank, Gomer S., Visual color comparator having a rotatable color keyed standard. 3,176,577, 4-6-65, Cl. 88-14.
- Frank, Heinrich H., to See—
- McCloskey, Richard G., and Frank. 3,186,704.
- Small, Charles B., Messe, and Frank. 3,221,962.
- Frank, Heinrich H., to The Ridge Tool Co. Pipe reamer. 3,195,377, 7-20-65, Cl. 77-73.
- Frank, Hermann, to Klenzle Apparate G.m.b.H. Apparatus for recording operations of a machine. 3,193,834, 7-6-65, Cl. 846-62.
- Frank, Joseph E., to See—
- Sanger, Richard B., and Frank. 3,177,730.
- Frank, Karl F., to Micro-Balancing, Inc. Self-centering means for rotating shaft. 3,203,233, 8-31-65, Cl. 73-100.
- Frank, Karl F., to Micro Balancing, Inc. High speed magnetic clutch means. 3,203,521, 8-31-65, Cl. 192-43.
- Frank, Klaus, to See—
- Ebert, Hans, and Frank. 3,177,071.
- Frank, Lorant E., A. Klein, and C. S. Jones, to General Precision, Inc. Pin board. 3,205,469, 9-7-65, Cl. 339-18.
- Frank, Mervin E., and R. B. Rush, to Bunker-Ramo Corp. Multiple input counter utilizing magnetic drum storage. 3,219,802, 11-23-65, Cl. 235-92.
- Frank, Raymond G., to Pennsalt Chemicals Corp. Rotary seal. 3,170,576, 2-23-65, Cl. 214-17.
- Frank, Raymond G., to Pennsalt Chemicals Corp. Apparatus for drying comprising a removable tray with tray-supporting shelves. 3,184,862, 5-25-65, Cl. 34-87.
- Frank, Richard J., Safety crutch. 3,213,869, 10-26-65, Cl. 135-47.5.
- Frank, Robert K., to See—
- Schneider, Alfred, Frank, and Fichuk. 3,182,648.
- Frank, Robert M., to See—
- Adler, Imre, Erhardt, and Frank. 3,224,604.
- Frank, Rudolf, to See—
- Witzig, Karl E., and Frank. 3,208,127.
- Frank, S. M., and Co., Inc., to See—
- Fassbender, Frederick A. 3,212,508.
- Fassbender, Frederick A. 3,223,091.
- Frank, Sidney M., to Pullman, Inc. Method for treating vapors formed during distillation. 3,215,745, 11-2-65, Cl. 260-610.
- Frank, Theodor H., Jr., to See—
- Branden, James C., Jr., Frank, and Rahiser. 3,199,177.
- Frank, W. R., Packaging Engineers, Inc., to See—
- Frank, Walter R., 3,174,175.
- Frank, Walter J., Jr., to See—
- Sacks, Norman M., Frank, and Price. 3,183,476.
- Frank, Walter R., to W. R. Frank Packaging Engineers, Inc. Ball applicator fitting. 3,174,175, 3-23-65, Cl. 15-572.
- Frank, William H., to See—
- Platz, Elwood T., and Frank. Re. 25,798.
- Frank, William J., to The Warner & Swasey Co. Converter devices. 3,217,314, 11-9-65, Cl. 340-347.
- Frank, William J., Jr., to The Warner & Swasey Co. Circuit selector system employing plural stepping switches. 3,200,375, 8-10-65, Cl. 340-168.
- Frank, Anton, to Sylvania Electric Products Inc. Repeating flash circuit for an electric lamp. 3,198,984, 8-3-65, Cl. 315-171.
- Franke & Heidecke Fabrik Photographischer Präzisions-Apparate, to See—
- Faasch, Werner, Kückelhahn, and Schade. 3,174,418.
- Franke, Manfred, to See—
- Awender, Hans, Becker, Franke, and Engel. 3,176,101.
- Franke, Norman W., to See—
- Anderson, John E., and Franke. 3,167,585.
- Franke, Ray F., to See—
- Stamm, Joseph A., Rumsey, and Franke. 3,200,724.
- Franke, Walter, to See—
- Derichs, Fritz, Glosauer, Muller, Schade, and Franke. 3,166,604.
- Heinrich, Erwin, Franke, Bueren, and Schneider. 3,206,424.
- Franke, Walter, E. Heinrich, and R. Muller, to Chemische Werke Huls Aktiengesellschaft. Terpolymer vinylacetate-2-oxymethyl-1,4-endomethylene cyclohexene(5)-ethylene and process therefor. 3,174,952, 3-23-65, Cl. 260-80.5.
- Frankel, Adolf, to Associated Electrical Industries Ltd. Turbine rotors. 3,209,838, 10-6-65, Cl. 170-169.
- Frankel, Adolf, and J. A. Loretto, to Richardson, Westgarth & Co. Ltd. Flexible joint for duct system. 3,186,742, 6-1-65, Cl. 285-114.
- Frankel, Ernest. Liquid dispensing with air venting. 3,211,330, 10-12-65, Cl. 222-1.
- Frankel, Gerald, to See—
- Cooper, Arthur H., and Frankel. 3,207,051.
- Frankel, Helmut J., and W. L. P. Reinhardt, to Shell Oil Co. Wide slit flow nozzle. 3,187,390, 6-8-65, Cl. 18-12.
- Frankel & Kirchner, Fabrik fur Elektromotoren und elektrische Apparate, Firma, to See—
- Heidt, Alfred, and Bellon. 3,187,701.
- Frankel, Milton B., to Aerojet-General Corp. N-(silico-alkyl) polynitropiperidines. 3,214,432, 10-26-65, Cl. 260-293.
- Frankel, Samuel R., to American Safety Table Co., Inc. Thread trimming device. 3,191,562, 6-29-65, Cl. 112-252.
- Frankel, Sidney. Winding and unwinding apparatus. 3,174,701, 3-23-65, Cl. 242-75.51.
- Frankel, Stanley P., to General Electric Co. Information storage system for microwave computer. 3,187,308, 6-1-65, Cl. 340-173.
- Franken, Adrianus J. J., to See—
- Van Dorsten, Adrianus C., and Franken. 3,197,635.
- Frankenberg, Henry E., to Continental Can Co., Inc. Wire opener fulcrumed on can-end for breaking scored segment thereof. 3,215,305, 11-2-65, Cl. 220-48.

- Frankenberg, Henry E., to Continental Can Co., Inc. Plastic overcap for domed top aerosol can. 3,225,958, 12-28-65, Cl. 220-60.
- Frankenberg, Paul, to Devero Co. of America. Pancake-making machine. 3,215,062, 11-2-65, Cl. 99-353.
- Frankenstein, P., & Sons (Manchester) Ltd., to See—
- Neumark, Otto W. 3,169,542.
- Smith, Rex S. 3,222,700.
- Frankert, Otto P., to F. L. Smith & Co. Method of making cement. 3,183,106, 5-11-65, Cl. 106-103.
- Frankische Isolier- und Metallwaren-Werke Gebrueder Kirchner, to See—
- Zieg, Wilhelm. 3,188,690.
- Frankl, Daniel R., to General Telephone and Electronics Laboratories, Inc. Voltage variable capacitor with strontium titanate dielectric. 3,202,891, 8-24-65, Cl. 817-258.
- Frankl, Ernest, to Winthrop-Atkins Co., Inc. Novelty folding device. 3,183,622, 5-18-65, Cl. 40-164.
- Franklin, Alpheus A., to See—
- Dunlap, Henry F., and Franklin. 3,208,209.
- Franklin, Arthur W., R. A. Smith, and E. G. Richards, to The International Nickel Co., Inc. Nickel-chromium-iron alloys. 3,203,791, 8-31-65, Cl. 76-171.
- Franklin, Arthur W., R. A. Smith, and E. G. Richards, to The International Nickel Co., Inc. Nickel-chromium-cobalt alloys. 3,207,599, 9-21-65, Cl. 75-171.
- Franklin, Burton P., to H. K. Porter Co., Inc. Variable speed hand tool. 3,221,192, 11-30-65, Cl. 810-68.
- Franklin, Cecil, to Simmonds Precision Products, Inc. Control circuit bridge for a relay. 3,172,018, 3-2-65, Cl. 317-148.5.
- Franklin, Cecil, to Simmonds Precision Products, Inc. Electronic apparatus for testing the contact resistance of electromagnetic relays. 3,217,243, 11-9-65, Cl. 324-28.
- Franklin Coffee Urn Corp., to See—
- Kirchner, Franklin E. 3,183,905.
- Franklin, Edward B., Brown, Boveri & Cie, Aktiengesellschaft. Noise reducing arrangement for transformers. 3,173,117, 3-9-65, Cl. 336-100.
- Franklin, Edward B., E. Ernst, and R. Kleiber, to Brown, Boveri & Cie, Aktiengesellschaft. Magnetic core having joints of zig-zag configuration with resin clamping means. 3,210,708, 10-5-65, Cl. 336-217.
- Franklin Electric Co., Inc., to See—
- Haffey, William E., Schaefer, and Lakes. 3,189,984.
- Schaefer, Edward J. 3,175,418.
- Schaefer, Edward J. 3,206,261.
- Schaefer, Edward J. 3,219,898.
- Franklin, Ernest, to United Kingdom Atomic Energy Authority. Thermometer devices. 3,211,002, 10-12-65, Cl. 73-362.
- Franklin, Frederick, and P. K. Glotho, to United States of America, Navy. Method of tracking radar targets in presence of jamming. 3,184,739, 5-18-65, Cl. 343-15.
- Franklin, Granvel. Apparel support rack. 3,202,293, 8-24-65, Cl. 211-96.
- Franklin Institute, The, to See—
- Kelper, David A. 3,192,765.
- Stubbs, Gilbert S. 3,206,621.
- Franklin Institute of the State of Pennsylvania for the Promotion of the Mechanic Arts, The, to See—
- Donahoe, Francis J. 3,208,878.
- Franklin, John A., to Falconbridge Nickel Mines Ltd. Car dumping apparatus. 3,176,860, 4-6-65, Cl. 214-64.
- Franklin, John J., and E. W. Hine II, to Proctor & Schwartz, Inc. High speed conveyor with wear plates. 3,220,535, 11-30-65, Cl. 198-137.
- Franklin, John J., and E. W. Hine II, to Proctor & Schwartz, Inc. Material treating method and apparatus. 3,224,452, 12-21-65, Cl. 131-140.
- Franklin, Kenneth V., and P. T. Ormiston, to Communications Patents Ltd. Radar simulation apparatus. 3,221,091, 11-30-65, Cl. 35-10.4.
- Franklin, Le Roy H., and R. M. Trainer, to Overseas Finance and Trading Co. High voltage current limiting fuse. 3,222,479, 12-7-65, Cl. 200-120.
- Franklin, Lester K. Cabinet for miniature radio receivers. 3,164,425, 1-5-65, Cl. 812-7.
- Franklin, Lester K. Cabinet for radio receiving sets. 3,170,119, 2-16-65, Cl. 825-352.
- Franklin Machine Products Co., Inc., to See—
- Lewis, Martin J. 3,198,210.
- Franklin, Maurice G., Jr., to St. Joe Paper Co. Container. 3,202,339, 8-24-65, Cl. 229-39.
- Franklin, Maurice R., to Bureat Development Ltd. Means for separating superimposed sheets. 3,182,995, 5-11-65, Cl. 271-64.
- Franklin, Philip J. Lightweight armor plate. 3,179,553, 4-20-65, Cl. 161-183.
- Franklin, Richard, to Sperry Rand Corp. Analog to digital converter and counter for fluid application. 3,223,324, 12-14-65, Cl. 235-201.
- Franklin, Richard L., J. E. Guseman, and E. A. Pelcanski, to United States Steel Corp. Method and composition for making carbonate-bonded agglomerates. 3,205,063, 9-7-65, Cl. 75-3.
- Franklin, Robert P. Self-cleaning hole saw. 3,220,449, 11-30-65, Cl. 145-126.
- Franklin, Stanley P., to General Motors Corp. Poppet valve actuation. 3,195,528, 7-20-65, Cl. 123-90.
- Franklin, Terrell E., to Westinghouse Electric Corp. Casing and insulator bushing assembly. 3,214,511, 10-26-65, Cl. 174-153.
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- Franko, Fredrick M., to General Electric Co. Cutting insert. 3,187,406, 6-8-65, Cl. 29-95.
- Franks, Bobby L., and F. B. Cahaly. Back box leather latch for looms. 3,199,543, 8-10-65, Cl. 139-183.
- Franks, Desmond M., to See—
- Saville, Peter A., and Franks. 3,216,153.
- Franks, Ferdinand F., to Fenestra Inc. Locking bar for auxiliary landing mat. 3,175,476, 3-30-65, Cl. 94-13.
- Franks, John T., Jr., to Goodyear Aerospace Corp. Magnetic shift register. 3,184,722, 6-18-65, Cl. 340-174.
- Franks, John T., Jr., to Goodyear Aerospace Corp. Multi-aperture logic element. 3,196,280, 7-20-65, Cl. 307-88.
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- Frankson, Jan R., to Casco, Aktiebolaget. Method in the production of compression moulded objects. 3,164,648, 1-5-65, Cl. 264-109.
- Frankton, William J., to International Standard Electric Corp. Carrier current communication systems incorporating repeaters. 3,189,694, 6-15-65, Cl. 179-175.31.
- Frank, Stamatis I., and P. J. McKeown, to Sperry Rand Corp., Ford Instrument Co. Division. Autocorrector for dead reckoning navigation computer. 3,196,264, 7-20-65, Cl. 235-187.
- Franiel, Eduardo P. Photo-printing or photo-engraving apparatus for full line and half tone plates. 3,177,763, 4-13-65, Cl. 88-24.
- Fransse, Albert D., to See—
- Samuelson, Gilbert J., and Fransse. 3,167,402.
- Fransen, Arle, to See—
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- Franson, Paul D., to See—
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- Frantit, Edsel W., to United States of America, Navy. Submarine air conditioning module. 3,205,667, 9-14-65, Cl. 62-3.
- Frantz, Clarence G., to Frantz Electric Industries Inc. Vacuum cleaner with cord ring. 3,166,777, 1-26-65, Cl. 15-323.
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- Frantz, Clarence G. 3,166,777.
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- Frantz, Lawrence D. Fishing equipment retriever. 3,224,132, 12-21-65, Cl. 43-17.2.
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- Frantz, Nicholas, and N. Kawamoto, to Carter Parts Co. Electrical device having a hollow housing with one or more contact elements mounted thereon. 3,166,649, 1-19-65, Cl. 200-51.1.
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- Frantz, Russell K., to See—
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- Frantz, S. G. Co., Inc., to See—
- Frantz, Samuel G. 3,221,882.
- Frantz, Samuel G., to S. G. Frantz Co., Inc. Magnetic restrictive separator. 3,221,882, 12-7-65, Cl. 210-223.
- Frantz, Virgil L., to Graham-White Sales Corp. Clean-out plug. 3,207,540, 9-21-65, Cl. 291-11.
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- Frantz, William, to Martin-Marietta Corp. Incremental digital fluid actuator. 3,164,065, 1-5-65, Cl. 91-365.
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- Frantzen, John J., to Buckbee-Mears Co. Etching polyester film. 3,186,883, 6-1-65, Cl. 156-7.
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- Frantzen, Karl H., to Northern Gas Products Co. Method of treating soil and growing plants. 3,184,891, 5-25-65, Cl. 47-58.
- Frantzen, Karl H., to Northern Gas Products Co. Propane gas dispenser assembly. 3,185,117, 5-25-65, Cl. 111-7.
- Frantz, Arvel O., and B. P. Lovinggood. Apparatus for preparation of solids in liquid dispersions. 3,222,036, 12-7-65, Cl. 259-44.
- Franz, Raymond A., to Monsanto Co. Stabilizing vinyl aromatic with amine-sulfur mixtures. 3,207,798, 9-21-65, Cl. 260-666.5.
- Franz, Raymond A., and R. N. Moore, to Monsanto Co. Process for condensation of aromatic compounds with unsaturated hydrocarbons. 3,198,945, 8-3-65, Cl. 260-668.
- Franz, Richard D., to See—
- Warner, Paul F., and Franz. 3,214,386.
- Fransse, Clemens, to See—
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- Franzen, Donald E. Asparagus harvester. 3,176,456, 4-6-65, Cl. 56-327.
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- Franzen, John A.: See—
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- Franzen, Kurt, and H. Lehmann, to P. Belersdorf & Co., Aktiengesellschaft. Pressure sensitive adhesive sheet material with diketene-acrylic acid ester copolymer coating. 3,189,480, 6-15-65, Cl. 117-122.
- Franzen, Paul R., to Midland Dimold Co. Slot cutter. 3,180,380, 4-27-65, Cl. 145-121.
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- Wicklatz, John E., and Franzus. 3,193,566.
- Fraser, George K., to Vane Industries, Inc. Pressure control system. 3,211,176, 10-12-65, Cl. 137-494.
- Fraser, James, to Speakman Co. Mixing valve. 3,211,180, 10-12-65, Cl. 137-625.17.
- Fraser, James, and J. G. Pecis, to Speakman Co. Single handle faucet. 3,211,181, 10-12-65, Cl. 137-625.17.
- Fraser, James M., and G. W. Day, to Vacuumatic Ltd. and J. Goshon & Co., Ltd. Closures for containers. 3,178,865, 4-20-65, Cl. 53-42.
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- Fraser, Murdo, and G. P. Tilly, to Associated Electrical Industries Ltd. Bonding of metal plates to semiconductor materials. 3,216,088, 11-9-65, Cl. 29-155.5.
- Fraser, Reginald P., and G. T. Furman, to Urquhart's (1926) Ltd. Apparatus for mixing fluids. 3,185,448, 5-25-65, Cl. 259-4.
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- Frazel, Wilbur H., to The New York Air Brake Co. Gravitric feeder. 3,182,738, 5-11-65, Cl. 177-120.
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- Frazier, Thomas C., to Allied Chemical Corp. Urea-formaldehyde molding compositions containing cyanuric acid as latent curing catalyst and method. 3,223,656, 12-14-65, Cl. 260-173.
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- Frederico, Blossy D. High power hybrid-L attenuator with T-fitting for inner conductors. 3,174,123, 3-16-65, Cl. 333-81.
- Fredericksen, Harold D., to The Regents of the University of Minnesota. Wave attenuator. 3,197,963, 8-3-65, Cl. 61-5.
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- Fredley, James C., and G. E. Sleighter, to Pittsburgh Plate Glass Co. Coating of glass sheet while deformable and supported on gas. 3,223,540, 12-14-65, Cl. 117-119.8.
- Fredman, Lester, to Western Chemical Corp. Phosphate and thiophosphate urethanes. 3,220,961, 11-30-65, Cl. 260-25.
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- Frey, Horst E., to Standard Oil Co. Preparation of polyester resins. 3,197,439, 7-27-65, Cl. 260-75.
- Frey, Hugh B., Jr., to Schlumberger Well Surveying Corp. Apparatus and methods relating to production of neutron radiation. 3,215,836, 11-2-65, Cl. 250-83.6.
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- Frey, Louis E. Mattress construction. 3,191,197, 6-29-65, Cl. 5-243.
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- Frey, Otto, G. Richter, and K. Schubmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Cracking of hydrocarbons. 3,221,076, 11-30-65, Cl. 260-683.
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- Freyermuth, William J. Toy roadway and vehicle. 3,206,890, 9-21-65, Cl. 46-202.
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- Frey-Lieb Co., Inc. The: See—
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- Freyndsson, Bragi, to A.R.F. Products, Inc. Inductive module for electronic devices. 3,185,947, 5-25-65, Cl. 336-200.
- Freytag, Richard W., and J. W. Gratian, to General Dynamics Corp. Non-inductive Hall-cell magnetometer. 3,213,359, 10-19-65, Cl. 324-45.
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- Frick, Robert P., and M. W. Maschke, to The Metal Specialty Co. Method and apparatus for making dome-like hollow metal structure. 3,166,837, 1-26-65, Cl. 29-421.
- Fricke, Roger H., and J. F. McSparran, to United States of America, Army. Microwave cavity having plural capacitance probes which act as a mode separator. 3,209,276, 9-28-65, Cl. 330-56.
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- Frick, Wilhelm E., and W. Stambach, to J. R. Geigy, A.G. Bis-(trifluoromethyl)-carbanilides. 3,214,468, 10-26-65, Cl. 260-553.
- Fricke, Edwin F., to Republic Aviation Corp. Thermal energy converting system. 3,164,957, 1-12-65, Cl. 60-36.
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- Fricke, Frank V., Jr., to Honeywell, Inc. Mechanical apparatus. 3,216,580, 11-9-65, Cl. 211-41.
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- Fried, John, G. E. Arth, and W. H. Jones, to Merck & Co., Inc. Steroid gem difluorides of the androstane and pregnane series. 3,189,624, 6-15-65, Cl. 260-397.5.
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- Fried, Josef, to Pharmaceutical Research Products, Inc. 16,17-acetals and ketals of 6-halo-16,17-dihydroxy steroids of the pregnane series and intermediates therefor. 3,197,469, 7-27-65, Cl. 260-239.55.
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- Friedberg, Michael A., and W. J. Dimond. Method of determining surface contours of an eye. 3,169,459, 2-16-65, Cl. 95-18.
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- Friedman, Lester, to Union Carbide Corp. Neoalkyl phosphites. 3,201,437, 8-17-65, Cl. 260-461.
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- Friedman, Melvin, to Polaroid Corp. Containing device for a photographic film assembly. 3,225,671, 12-28-65, Cl. 95-13.
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Fritsch, Felix, to Simmering-Graz-Pauker Aktiengesellschaft für Maschinen-, Kessel- und Waggonbau. Epicyclic spur gear transmission. 3,178,967, 4-20-65, Cl. 74-80.1.

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Heinenberg, Fritz, Fritsch, and Philipp. 3,212,766.

Fritsch, Werner H., to Dr. Schmitz & Apelt, Industrieofenbau G.m.b.H. Heating apparatus for burning gases or liquid fuels, especially fuel oil. 3,190,340, 6-22-65, Cl. 158-4.

Fritsch, William G., and A. F. Bohnert, to Enterprise Paint Mfg. Co. Method for finishing wood. 3,180,753, 4-27-65, Cl. 117-45.

Fritsche, Richard K., to The Miami Margarine Co. Lined food package. 3,184,319, 5-18-65, Cl. 99-171.

Fritschl, Charles. Method of making stereotype matrices and backing sheet for use therein. 3,225,687, 12-28-65, Cl. 101-17.

Fritz, Conrad M.: See—
Baker, John A., Olson, and Fritz. 3,169,624.

Fritz, Edmund B.: See—
Von Meister, Frederick W., and Fritz. 3,183,832.

Fritz Gegauf Aktiengesellschaft: See—
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Fritz, Gerhard: See—
Munder, Johannes, Heiss, Fritz, Osswald, and Heck. 3,201,241.

Fritz, Gerhard, O. Sua, F. Uhlir, and W. Neunbauer, to Azoplate Corp. Reproduction layers for printing plates. 3,184,310, 5-18-65, Cl. 96-49.

Fritz, Gerhard, O. Sua, F. Uhlir, and W. Neugebauer, to Azoplate Corp. Naphthoquinone (1,2)-diazole-sulfonic acid derivatives and process of producing printing plates therefrom. 3,188,210, 6-8-65, Cl. 96-33.

Fritz, Gerhard T.: See—
Böllert, Volker, Fritz, Schnell, and Lotter. 3,222,302.

Fritz, Harry E., and F. M. Galloway, to H. K. Porter, Co., Inc. Kinkproof fire hose. 3,221,774, 12-7-65, Cl. 138-125.

Fritz, Harry E., R. A. Gallagher, F. M. Galloway, R. M. Kerr, F. B. Plumb, G. J. Rittenhouse, and R. H. Sinnamon, to H. K. Porter Co., Inc., and Thermold Division. Method of making heat resistant flexible hose. 3,223,565, 12-14-65, Cl. 156-86.

Fritz, Henry E.: See—
Leis, Donald G., Magnus, and Fritz. 3,185,735.

Murray, James V., Jr., and Fritz. 3,192,277.

Fritz, Henry E., to Union Carbide Corp. Alkylation of indene. 3,192,276, 6-29-65, Cl. 260-668.

Fritz, Henry E., and D. W. Peck, to Union Carbide Corp. Bis(9-(2-cyanoalkyl)fluoren-9-yl)alkane compound. 3,205,267, 9-7-65, Cl. 260-465.

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Fritz, James D., and K. K. Klein, to The Colorado Fuel and Iron Corp. Leaded steel fume control. 3,166,805, 1-26-65, Cl. 22-139.

Fritz, Karl, to Miwag Mikrowellen AG. Microwave oven. 3,166,663, 1-19-65, Cl. 219-10.55.

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Fritz, Karl. Annealing furnace. 3,222,042, 12-7-65, Cl. 263-3.

Fritz, Robert A., to Fresno Valves, Inc. Holder for pipe forming device. 3,183,572, 5-18-65, Cl. 25-126.

Fritz, Robert J., and A. H. Neal, to Esso Research and Engineering Co. Polymer deashing with alkanols and HCl. 3,216,886, 11-9-65, Cl. 260-93.7.

Fritz, Roy J. Fruit and vegetable juicer. 3,191,523, 6-29-65, Cl. 100-97.

Fritz, Stewart J., to Rocket Power, Inc. Ballistically actuated device for winding in an elongated flexible element. 3,219,288, 11-23-65, Cl. 242-54.

Fritz, William B., and J. H. Whitley, to AMP Inc. Drive circuit. 3,221,176, 11-30-65, Cl. 307-88.

Fritz, William E.: See—
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Carpenter, Keith H., Fritz, and Terkoski. 3,226,498.

Cassano, James R., and Fritz. 3,195,673.

Fritz, William E. Discharge outlet assembly for hopper car. 3,183,852, 5-18-65, Cl. 105-282.

Fritz, William H., N. M. Potter, and C. W. Reash, to Union Carbide Corp. Voltage output control means. 3,215,891, 11-2-65, Cl. 315-50.

Fritzberg, Edward L., to The Pillsbury Co. Extrusion device. 3,212,461, 10-19-65, Cl. 107-54.

Fritze, Curtis W.: See—
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Fritzmeyer, Rupert. 3,215,466.

Fritzmeyer, Rupert, to Georg Fritzmeyer. Roof and wind-shield assembly. 3,215,466, 11-2-65, Cl. 296-84.

Fritzmeyer, Rupert. Flexible hanging-in strip on an upholstery cover, particularly of a vehicle seat. 3,216,029, 11-9-65, Cl. 5-853.1.

Fritzmeyer, Georg: See—
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Fritzsche, Peter R., and R. C. Gillard, to Cumberland Chemical Corp. Coating of printed paper with polyvinyl alcohol coating compositions. 3,218,183, 11-16-65, Cl. 117-18.

Froben, Heinz, and K. H. Petersen. Extrusion presses. 3,205,838, 9-14-65, Cl. 107-14.

Frock, William F., and P. E. Hauck. Material handling attachment for front end loader on tractors. 3,198,819, 7-6-65, Cl. 294-88.

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Swallert, Sven A. 3,222,099.

Frode, Per E. L.: See—
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Frode, Per E. L., to Ab Urfabriken. Automatically variable drive gearing for a fishing reel. 3,167,272, 1-26-65, Cl. 242-84.54.

Frodermann, Hermann. Loose-leaf binder mechanism. 3,183,913, 5-18-65, Cl. 128-24.

Froede, Walter, to NSU Motorenwerke Aktiengesellschaft, and Wankel G.m.b.H. Rotary combustion engine. 3,168,077, 2-2-65, Cl. 123-8.

Froehlich, Bernard E. Rotary table with dividing attachment. 3,170,340, 2-23-65, Cl. 74-813.

Froelich, Ronald W., to Thompson Ramo Wooldridge, Inc. Horizon detection and scanning system. 3,201,591, 8-17-65, Cl. 250-83.3.

Froehlig, Rudolph A., to Modern Album and Finishing, Inc. Laminating machine. 3,196,069, 7-20-65, Cl. 156-547.

Froese, Marvin D. Wall bridges for grain removal. 3,214,800, 11-2-65, Cl. 20-1.4.

Frogge, Otis W. Casing perforator. 3,212,580, 10-19-65, Cl. 166-55.3.

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Frohberger, Paul-Ernst, and E. Urbach, to Farbenfabriken Bayer Aktiengesellschaft. Fungicides. 3,173,833, 3-16-65, Cl. 167-22.

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Frohbieter, Edwin H., to Whirlpool Corp. Ice maker powered by supply water pressure. 3,199,305, 8-10-65, Cl. 62-135.

Frohbieter, Edwin H., to Whirlpool Corp. Automatic ice cube maker. 3,200,612, 8-17-65, Cl. 62-345.

Frohlich, David: See—
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Frohlich, Franklin. Heat exchanger. 3,176,763, 4-6-65, Cl. 165-166.

Frohlich, Franklin. Heat exchanger and method of constructing the same. 3,207,213, 9-21-65, Cl. 165-31.

Frohlich, Franklin. Heat exchanger. 3,225,823, 12-28-65, Cl. 165-69.

Frohlich, Gerhard J.: See—
Gattiker, David C., and Frohlich. 3,205,062.

Frohwerk, Paul A., H. L. Bass, and L. D. Hamlin, to J. F. Pritchard & Co. of California. Cooling tower improvement. 3,171,887, 3-2-65, Cl. 261-24.

Froitzheim, Hans, and K. Letzel, to Daimler-Benz Aktiengesellschaft. Step unit for motor vehicles. 3,224,525, 12-21-65, Cl. 180-89.

Fromkin, Jack, to Epsilon Industrial Electronics. Two state devices controlled by an input and phase-shifted signal applied to a trigger means of said devices. 3,226,627, 12-28-65, Cl. 323-22.

Fromknecht, Charles T., and G. H. Frost, to Westinghouse Electric Corp. Vacuum cleaner nozzle. 3,205,528, 9-14-65, Cl. 15-416.

Fromm, Ellsworth H.: See—
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Fromm, Frederick W., and R. H. Kilpatrick, to Lockheed Aircraft Corp. Low heat plug weld method and apparatus. 3,204,083, 8-31-65, Cl. 219-127.

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Yallien, Arthur J. 3,178,351.

Fromm, Walter J., to The Protectoseal Co. Fluid connection. 3,171,448, 3-2-65, Cl. 141-293.

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Frommelt, Cyril P., P. J. and S. J., to Dubuque Awning & Tent Co., Inc. Storage receptacles. 3,172,444, 3-9-65, Cl. 150-50.

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Frommelt, Horace A., and R. E. Watling, to Ferralloy, Inc. Replaceably mounted insert. 3,197,841, 8-3-65, Cl. 29-96.

Frommelt, Horace A., and R. E. Watling, to Ferralloy, Inc. Replaceably mounted insert. 3,205,557, 9-14-65, Cl. 29-96.

Frommelt, Paul J.: See—
Frommelt, Cyril P., P. J. and S. J. 3,172,444.

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Fromson, Howard A. Method of forming honeycomb structure. 3,165,820, 1-19-65, Cl. 29-157.3.

Fromson, Howard A. Method of making tubing. 3,196,657, 7-27-65, Cl. 72-199.

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Fronczek, Laurens H., to Inland Steel Co. Container handle construction. 3,199,719, 8-10-65, Cl. 220-94.

Froning, H. Robert, to Pan American Petroleum Corp. Use of phosphates in a waterflooding process. 3,191,676, 6-29-65, Cl. 166-9.

Froning, H. Robert, to Pan American Petroleum Corp. Use of sulfides in flooding water. 3,203,480, 8-31-65, Cl. 166-4.

Froning, Lyle L.: See—
Jueck, Darwin R., Adams, and Froning. 3,192,053.

Fronk, William R.: See—
Cobel, George B., and Fronk. 3,194,631.

Front Projection Corp.: See—
Fairchild, Sherman M. 3,224,718.

Frontczak, Aloysius P., to Rex Chainbelt Inc. Pan conveyor vibrator. 3,220,540, 11-30-65, Cl. 198-229.

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Beeston, John T., Jr. 3,187,676.

Frontier Sixty Corp.: See—
Turner, Charles W., Jr. 3,199,798.

Fromme, Keith D., and R. H. Bradwell, to National Research Development Corp. Measurement of distance by means of modulated polarized light. 3,200,698, 8-17-65, Cl. 88-1.

Frommkin, Norman G. Precision rotary accelerator. 3,205,696, 9-14-65, Cl. 73-1.

Froot, Bernard, to Combustion Engineering, Inc. Fluid heater organization with improved flow control means. 3,225,749, 12-28-65, Cl. 122-406.

Frosch, Carl J., to Bell Telephone Laboratories, Inc. Process for growing gallium phosphide and gallium arsenide crystals from a GaO and hydrogen vapor mixture. 3,197,411, 7-27-65, Cl. 252-62.3.

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Frost, Douglas V. Competitive light athletic game with soft, compact, orbiting ball. 3,218,073, 11-16-65, Cl. 273-95.

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Eichhorn, Reinhold, and Frost. 3,208,713.

Frost, George, Co.: See—
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Frost, George H.: See—
Fromknecht, Charles T., and Frost. 3,205,528.

Frost, George H., to Westinghouse Electric Corp. Electric toothbrush case. 3,194,621, 7-13-65, Cl. 312-206.

Frost, Gerard C., and J. P. Grynkiewicz, to Pyrofax Gas Corp. Integrated apparatus for measuring the level of liquids. 3,188,865, 6-15-65, Cl. 73-304.

Frost, James D. Object conveying chute. 3,182,827, 5-11-65, Cl. 214-83.1.

Frost, John W.: See—
Fiedler, William S., Frost, and Diehl. 3,187,735.

Fiedler, William S., Frost, and Diehl. 3,205,882.

Frost, John W. Plug-in attached valved pressurized fluid-dispensing receptacles. 3,224,645, 12-21-65, Cl. 222-182.

Frost, Lawrence W., to Westinghouse Electric Corp. Cyanoethylation of polyvinyl alcohol. 3,194,798, 7-13-65, Cl. 260-91.3.

Frost, Lawrence W., and G. M. Bower, to Westinghouse Electric Corp. Linear polymeric amide-modified polyimides and process of making same. 3,179,635, 4-20-65, Cl. 260-78.

Frost, Paul, and F. Hennig, to Agfa Aktiengesellschaft. Flash assembly for cameras. 3,204,541, 9-7-65, Cl. 95-11.

Frost, Paul D., and T. G. Byrer, to United States of America, Army. Magnesium-lithium-thorium alloys. 3,189,441, 6-15-65, Cl. 75-122.7.

Frost, Paul D., and T. G. Byrer, to United States of America, Army. Magnesium-lithium-yttrium alloys. 3,189,442, 6-15-65, Cl. 75-122.7.

Frost, Walter W., to Sunbrand Supply Co., Inc. Stackers. 3,182,822, 5-11-65, Cl. 214-7.

Frost-Whitted Co., Inc.: See—
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Frostick, Harold G., to United States Steel Corp. Follower control for traveling receptacle. 3,196,500, 7-27-65, Cl. 22-57.2.

Frowde, Henry L., to Lever Brothers Co. Hair dyeing method using gelatin as a dye resist. 3,193,465, 7-6-65, Cl. 167-88.

Frowein, Egbertus A., to Brown, Boveri & Cie, Aktiengesellschaft. Enclosed pressure-gas insulated busbar system with laterally extending taps. 3,164,667, 1-5-65, Cl. 174-27.

Frowett, Egbertus, and S. Ruffieux, to Aktiengesellschaft Brown, Boveri & Cie. Compressed gas actuated circuit breaker having a dwell phase in the opening stroke of the movable contact. 3,226,513, 12-28-65, Cl. 200-148.

Fruehauf Corp.: See—
Bernstein, Robert, and Hulverson. 3,201,141.
Brackett, Ralph C. 3,206,076.
Burns, Samuel P., and Bauer. 3,204,579.
Chieger, George. 3,191,985.
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Tantlinger, Keith W. 3,177,003.
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Tantlinger, Keith W., Tozer, and Borneman. 3,208,608.

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Fruegel, Frank, and W. Thorwart: said Thorwart assor. to Fruegel. Method and apparatus for high-speed photography of gas flow phenomena. 3,197,675, 7-27-65, Cl. 315-111.

Fruehling, Rolf: See—
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Frustorfer, Wolfgang, G. Seitz, K. Schulte, and H. Muller, to E. Merck Aktiengesellschaft. N-substituted phenalkyl amines. 3,202,711, 8-24-65, Cl. 260-570.

Fruhwith, Otto, to Wacker-Chemie G.m.b.H. Process for separating acetone and other carbonyl compounds with 3 carbon atoms from vinyl acetate. 3,182,008, 5-4-65, Cl. 202-42.

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Fruin, Robert E., and V. L. Newhouse, to General Electric Corp. Cryogenic memory circuit. 3,182,293, 5-4-65, Cl. 340-173.1.

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Frump, John A., to Commercial Solvents Corp. Process for the production of amino hydroxyethers. 3,179,697, 4-20-65, Cl. 260-570.6.

Frump, John A., to Commercial Solvents Corp. Method for changing the crystal habit of monosodium glutamate. 3,183,263, 5-11-65, Cl. 260-534.

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Fruth, Hal F., and C. J. Mitchell. Liquid applicator device. 3,184,888, 5-25-65, Cl. 47-1.5.

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Fry, Horace P., Jr., to FMC Corp. Manufacture of thin-wall tubing. 3,223,762, 12-14-65, Cl. 264-95.

Fry, Horace P., Jr., to FMC Corp. Apparatus for making webless tape. 3,224,922, 12-21-65, Cl. 156-433.

Fry, Jeremy J., to Rotork Engineering Co. Ltd. Valve actuators. 3,198,033, 8-3-65, Cl. 74-625.

Fry, Jeremy J., to Rotork Engineering Co. Ltd. Torque and position responsive limit switch. 3,209,090, 9-28-65, Cl. 200-47.

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Fry, John S., and J. L. Welch, Jr., to Union Carbide Corp. Heat hardenable compositions of tri- or tetra-glycidyl ethers and phenolic resins. 3,218,370, 11-16-65, Cl. 260-831.

Fry, Michael G. J., to Brentford Electric Ltd. Voltage or current regulator apparatus. 3,195,038, 7-13-65, Cl. 323-25.

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Fryar, Jack R., to Phillips Petroleum Co. Glycol-gas separator system and method. 3,182,434, 5-11-65, Cl. 55-32.

Fryar, Jack R., to Phillips Petroleum Co. Fluid separation and gas dehydration process. 3,210,270, 10-5-65, Cl. 10-5-65, Cl. 208,341.

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Frydryk, John T., to Johnson & Johnson. Tail tacking device. 3,175,533, 3-30-65, Cl. 118-202.

Frydryk, John T., to Johnson & Johnson. Sewing machine feeding mechanism. 3,208,418, 9-28-65, Cl. 112-212.

Frydryk, John T., to Johnson & Johnson. Method of making a crib sheet. 3,208,419, 9-28-65, Cl. 112-262.

Frye, Alfred H.: See—
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Frye, Burton L. R. Microfilm viewer. 3,170,259, 2-23-65, Cl. 40-63.

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Frye, Colin M., H. Milburn, and R. H. B. Winder, to Dowty Mining Equipment Ltd. Hydraulic mine roof supporting devices. 3,164,066, 1-5-65, Cl. 91-412.

Frye, James A., to Halliburton Co. Mixing apparatus for producing oil well formation fracturing compositions. 3,191,912, 6-29-65, Cl. 259-7.

Frye, Kenneth W. Tricycle with locking caster wheel. 3,206,223, 9-14-65, Cl. 280-274.

Frye, Norman V. Folding ground anchor. 3,197,928, 8-3-65, Cl. 52-157.

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Frye, William A., to General Motors Corp. Method of manufacturing a drive roller for a domestic appliance. 3,168,773, 2-9-65, Cl. 29-148.4.

Frye, William A., to General Motors Corp. Steering wheel. 3,222,952, 12-14-65, Cl. 74-552.

Fryer Corp.: See—
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Fryklund, Dorothy H.: See—
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Fryklund, Robert A. 3,192,431.

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Fuchiaki, Shinobu, to Hitachi Zosen Kabushiki Kaisha. Continuous pressurized impregnator type pulping digester. 3,180,789, 4-27-65, Cl. 162-237.

Fuchs, Ekkehard, and W. Liesk, to Siemens & Halske Aktiengesellschaft. Method of and device for magnetizing a specimen in an electron microscope. 3,182,195, 6-4-65, Cl. 250-49.5.

Fuchs, Francis J., Jr., and H. R. Tillman, to Western Electric Co., Inc. Mechanism for shearing tubular members. 3,171,312, 3-2-65, Cl. 83-191.

Fuchs, Francis J., Jr., and W. R. Wyatt, to Western Electric Co., Inc. Combined feeding and marking apparatus. 3,225,689, 12-28-65, Cl. 93-44.1.

Fuchs, Frieda W.: See—
Fuchs, Walter M., and Stamberger. 3,219,639.

Fuchs, Walter M., and Stamberger. 3,219,599.

Fuchs, Gyula, 33% to I. Papsi, and 7% to S. T. Brinsky. Screw propeller. 3,179,182, 4-20-65, Cl. 170-156.

Fuchs, Klaus: See—
Simon, Franz E., Fuchs, and Peteris. 3,208,107.

Fuchs, Martin, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft. Machine for producing folded boxes. 3,225,667, 12-28-65, Cl. 93-44.1.

Fuchs, Otto, to Olin Mathieson Chemical Corp. Purification of organic isocyanates by liquid-liquid extraction and distillation. 3,211,631, 10-12-65, Cl. 202-60.

Fuchs, Otto, and H. Rentel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. N-methylated diamino-dihydroxyanthraquinones, mixtures thereof and their production. 3,185,973, 7-20-65, Cl. 8-25.

Fuchs, Otto, and H. Rentel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 2-bromo-1,4-diamino-5- or 8-nitro anthraquinone. 3,215,711, 11-2-65, Cl. 260-381.

Fuchs, Paul E. Reflector for a Christmas tree or the like. 3,210,535, 10-5-65, Cl. 240-10.

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Chapin, Howard R., and Fuchs. 3,212,353.

Fuchs, Walter. Filter for drinking water. 3,217,888, 11-16-65, Cl. 210-266.

Fuchs, Walter M.: See—
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Fuchs, Walter M., deceased (by F. W. Fuchs, sole heir), and P. Stamberger; said F. W. Fuchs assor. to Crusader Chemical Co., Inc. Polymeric quaternary ammonium salt compositions and method of making the same. 3,219,639, 11-23-65, Cl. 260-80.5.

Fuchs, Warren J.: See—
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Fuchsman, Charles H., to Ferro Corp. Polyolefins stabilized with an (alkylphenol) monosulphide and a nickel alkoxide. 3,201,368, 8-17-65, Cl. 260-45.75.

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Fudaley, Solly L., to International Telephone and Telegraph Corp. 2-to-4 wire converter. 3,189,693, 6-15-65, Cl. 179-170.

Fuderer, Andrija, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Compression process for refrigeration. 3,203,194, 8-31-65, Cl. 62-114.

Fuehrer, George H., to Thor Power Tool Co. Rotor assembly for fluid-handling device. 3,191,503, 6-29-65, Cl. 91-140.

Fuehrer, George H., to Thor Power Tool Co. Sinker drill. 3,203,489, 8-31-65, Cl. 173-36.

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Fuentes, Gabriel, Jr. Prosthetic poultry spur. 3,224,412, 12-21-65, Cl. 119-1.

Fuentevilla, Manuel E., to Pennsalt Chemicals Corp. Freeze drying apparatus and method. 3,176,408, 4-6-65, Cl. 34-5.

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Fuerst, Edwin W., to Monsanto Co. Apparatus for forming indicia on articles. 3,180,252, 4-27-65, Cl. 101-40.

Fuerst, Herbert. Collapsible cart. 3,214,187, 10-26-65, Cl. 280-36.

Fuerst, Robert J., to Kores Mfg. Corp. Contact copy correcting sheet and method of using. 3,170,807, 2-23-65, Cl. 117-2.

Fuerstein, Ludwig J., and F. F. Koehn, to Pemco, Inc. Packaging and wrapping machine. 3,213,591, 10-26-65, Cl. 53-379.

Fueslein, John R., R. R. Rader, and E. C. Roper, to Mueller Brass Co. Pressure seal plug. 3,200,934, 8-17-65, Cl. 220-24.5.

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Fugassi, Lucien A., to National Steel Corp. Strip straightening. 3,188,846, 6-15-65, Cl. 72-183.

Fugate, James A. Roller applicators for liquids. 3,187,368, 6-8-65, Cl. 15-548.

Fugate, James A. Roller applicators for liquids. 3,187,369, 6-8-65, Cl. 15-548.

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Fugleang-Madsen, Erik, and B. Monberg. Expellant holders for stick material. 3,175,680, 3-30-65, Cl. 206-56.

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Fuhring, Heinrich, and J. H. Sieber. Chemical cleaning apparatus. 3,203,110, 8-31-65, Cl. 34-80.

Fuhrman, Richard E., to Borg-Warner Corp. Refrigerating compressor. 3,201,676, 8-17-65, Cl. 318-558.

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Fuhrmann, Ernst, to Goetzwerke Friedrich Goetze Aktiengesellschaft. Sealing bar for rotating piston engines. 3,194,488, 7-13-65, Cl. 230-145.

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Fuhrmann, Ernst, and M. Frenzel, to Goetzwerke Friedrich Goetze Aktiengesellschaft. Radial seal for rotary piston engines. 3,180,564, 4-27-65, Cl. 230-145.

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Fujii, Kiyoshi, S. Imoto, J. Ukida, and M. Matsumoto, to Kurashiki Rayon Co., Ltd. Method of producing polyvinyl formate of high crystallinity. 3,222,338, 12-7-65, Cl. 260-89.1.

Fujii, Shokichi. Pipe coupling. 3,199,899, 8-10-65, Cl. 285-201.

Fujii, Tatsuo. Camera diaphragms with square openings. 3,221,630, 12-7-65, Cl. 95-64.

Fujii, Yukio, to Maurzen Iron Works, Ltd. Water tube boiler. 3,198,177, 8-3-65, Cl. 122-236.

Fujimaki, Itsuo: See—
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Fujimoto, Sakane, to Kabushiki Kaisha Ricoh. Safety device for securing against inadvertent opening of the rear cover of photographic camera and against inadvertent shutter releasing. 3,190,202, 6-22-65, Cl. 95-11.

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Fukaya, Toshitada, M. Kato, and T. Ito, to Kyowa Hakko Kogyo Co., Ltd. Manufacture of malt beverage. 3,175,910, 3-30-65, Cl. 99-51.
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Fukui, Kenichi, S. Yuasa, T. Kagiya, T. Shimizu, and T. Sano, to Sumitomo Chemical Co., Ltd. Polymerization of olefin oxides with a metal phosphate-organometallic catalyst. 3,221,059, 11-30-65, Cl. 260-615.
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Fukushima, Osamu, and K. Matsubayashi, to Kurashiki Rayon Co., Ltd. and 1/4 to Air Reduction Co. Inc. Production of polyvinyl alcohol having improved dyeability and composition therefor including polyvinyl alcohol basic nitrogen-containing derivatives. 3,211,685, 10-12-65, Cl. 260-296.
Fukushima, Osamu, to Kurashiki Rayon Co., Ltd. Process of making polyvinyl benzene emulsions. 3,216,961, 11-9-65, Cl. 260-296.
Fukutome, Tetsuzo. Pulsator combined with a milk claw. 3,209,727, 10-5-65, Cl. 119-1437.
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Fuller, Evander K., to Western Electric Co., Inc. Test circuit for determining impedance and related characteristics of an electrical element including translator means operated with zero collector-to-base voltage. 3,204,179, 8-31-65, Cl. 824-571.
Fuller, Evander K., to Western Electric Co., Inc. Trigger circuit. 3,222,539, 12-7-65, Cl. 307-885.
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Fuller, Harlan I., and M. R. Thomson, to The Bendix Corp. Fuel injector. 3,190,661, 6-22-65, Cl. 239-90.
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Fuller, John L. Speed control mechanism. 3,196,973, 7-27-65, Cl. 180-82.1.
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Fuller, Richard H., R. J. Koerner, and E. J. Schneberger, to The Bunker-Ramo Corp. Modular computer system. 3,226,692, 12-28-65, Cl. 340-172.5.
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- Fuller, Steven B. Dynamic range modifier. 3,185,936, 5-25-65, Cl. 330-59.
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Fullerton, George H. Switchplate mounted extension operator for wall switch. 3,188,439, 6-8-65, Cl. 200-172.
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Fulop, Charles. Unitary expansion anchor for bolts. 3,217,583, 11-16-65, Cl. 85-72.
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Fulton, Bertram A., to Arthur D. Little, Inc. One-way clutch with speed responsive means. 3,202,261, 8-24-65, Cl. 192-45.1.
Fulton, Bertram A., and R. S. Lindstrom, to Wilbert W. Haase Co. Burial vaults. 3,208,186, 9-28-65, Cl. 52-140.
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- Furth, Harold P., to United States of America, Atomic Energy Commission. Plasma confinement apparatus employing a helical magnetic field configuration. 3,219,534, 11-23-65, Cl. 176-1.
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- Fyler, Norman F., to Litton Electron Tube Corp. Adjustable mounting assembly for cathode ray tubes. 3,193,775, 6-15-65, Cl. 313-84.
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- Gabor, Dennis, to National Research Development Corp. Multiply neutralized ion source. 3,182,220, 5-4-65, Cl. 313-63.
- Gabor, Dennis, to National Research Development Corp. Bandwidth compression and expansion system for transmission of speech. 3,183,310, 5-11-65, Cl. 179-100.2.
- Gabor, Dennis, to Columbia Broadcasting System, Inc. Optical recording-reproducing scanning system. 3,198,067, 8-3-65, Cl. 88-24.
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- Gabriel, Martin G., to Ford Motor Co. Multiple element hydrokinetic torque converter. 3,187,512, 6-8-65, Cl. 60-54.
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- Gabrielson, Reidar G., to Motorola, Inc. Binary selective calling system. 3,171,098, 2-23-65, Cl. 340-164.
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- Gadde, Tore L., to Amals Gjuteri och Mekanska Verstad, AB. Expandable mandrel. 3,223,341, 12-14-65, Cl. 242-72.
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- Gaddis, Adam M., and R. Ellis, to United States of America, Agriculture. Use of Girard T reagent in quantitative aliphatic M-aldehyde determinations. 3,173,761, 3-16-65, Cl. 23-230.
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- Schisla, Robert M., and Gaertner. 3,170,945.
- Gaertner, Van R., to Monsanto Co. Sucrose ethers. 3,170,915, 2-23-65, Cl. 260-210.
- Gaertner, Van R., to Monsanto Co. Succinate half-esters of alkylene glycol phosphate. 3,202,693, 8-24-65, Cl. 260-461.
- Gaertner, Van R., to Monsanto Co. Ether derivatives of N-alkylaminoalkanesulfonate salts. 3,210,410, 10-5-65, Cl. 260-509.
- Gaertner, Van R., to Monsanto Co. Process of sizing paper with a halo-sym-triazine. 3,214,325, 10-26-65, Cl. 162-158.
- Gaertner, Van R., to Monsanto Co. Lubricants and fuels containing saccharide polydicarboxylate half-esters. 3,219,582, 11-23-65, Cl. 252-34.
- Gaertner, Van R., to Monsanto Co. Saccharide polydicarboxylate half-esters. 3,219,657, 11-23-65, Cl. 260-234.
- Gaetani, Ermanno, to Azienda Colori Nazionali Acna S.p.A. Disazo dyes. 3,222,355, 12-7-65, Cl. 204-186.
- Gaetani, Marcello: See—
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- Gaeth, Rudolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for improving the properties of polyethylene. 3,165,505, 1-12-65, Cl. 260-94.9.
- Gaeth, Rudolf, B. Schmitt, and R. Brey, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Heat insulating metal sheets. 3,186,888, 6-1-65, Cl. 150-325.
- Gaffard, Jean P., to Compagnie de Saint-Gobain. Optical apparatus with sinusoidal mask for the observation of phase objects. 3,216,318, 11-9-65, Cl. 88-39.
- Gaffn, Harry A.: See—
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- Gaffney, Edward J. Two-cycle internal combustion engine. 3,203,263, 8-31-65, Cl. 74-44.
- Gaffney, John E., Jr., to International Business Machines Corp. Sequential decision making device. 3,226,883, 12-28-65, Cl. 340-172.5.
- Gaffney, John E., Jr., and A. A. Kusnick, to International Business Machines Corp. Character identification device. 3,199,078, 8-3-65, Cl. 340-146.3.
- Gafford, Burns N. Protective relay for polyphase machines responsive solely to positive and negative sequence currents. 3,172,012, 3-2-65, Cl. 317-47.
- Gagarine, Dmitry M., to Deering Milliken Research Corp. Method of creaseproofing cellulosic fabrics by wet creaseproofing followed by dry creaseproofing and the resulting product. 3,175,874, 3-30-65, Cl. 8-115.6.
- Gagarine, Dmitry M., to Deering Milliken Research Corp. Cellulosic fabrics and methods for making the same. 3,175,875, 3-30-65, Cl. 8-120.
- Gagarine, Dmitry M., to Deering Milliken Research Corp. Processes for producing modified cellulosic textile materials. 3,194,627, 7-13-65, Cl. 8-116.
- Gage, Kenneth W.: See—
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- Gage, Leonard S. Gyroscopic toy adapted to be worn about the user's waist. 3,178,551, 4-20-65, Cl. 46-51.
- Gager, Charles H., and A. E. Ruvin, to United States of America, Army. Apparatus for double cancellation utilizing one delay line in a moving target indicating system. 3,222,602, 12-7-65, Cl. 325-476.
- Gagg, James, to Mollins Machine Co. Ltd. Detectors for use with sheet feeds. 3,179,403, 4-20-65, Cl. 271-57.

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Cowan, Jack C., Galney, and Oyler. 3,210,203.
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Gamzon, Robert R. (deceased), by D. D. and M. Gamzon, legal heirs, and E. H. Frel. Electro-acoustical transducer. 3,209,084, 9-28-65, Cl. 179—115.5.
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Gangwisch, William J., to Colgate-Palmolive Co. Liquid abrasive cleanser. 3,210,286, 10-5-65, Cl. 252—137.
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Gardner, Edwin A., and S. P. Sturtevant, to Esensee Co. Method and apparatus for handling boxes of fruit in an orchard following picking. 3,193,320, 7-6-65, Cl. 294—110.
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Gardner, James W. Apparatus for slitting nut skins. 3,217,764, 11-16-65, Cl. 146—32.
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Gardner, Leland C., Sr., and L. F. Waldrop, Jr. Bell and spigot joint with self locking wedge rings. 3,193,299, 7-6-65, Cl. 277—190.
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Gardner, Robert S., to United States of America, Navy. Transmitter keying and receiver blanking circuit. 3,212,054, 10-12-65, Cl. 340—3.
Gardner, Robert S., to United States of America, Navy. Time delay circuits for echo controlled steering gear. 3,221,694, 12-7-65, Cl. 114—23.
Gardner, Stephen, and J. D. Sutton, to General Precision Inc. Trigger circuit for a high speed flip-flop. 3,187,200, 6-1-65, Cl. 307—88.5.
Gardner, Thomas A. Multiple nozzle air blast web drying. 3,176,412, 4-6-65, Cl. 34—122.
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Garfield, William L., and I. F. H. Goult, to International Standard Electric Corp. Monitoring circuit receiver for an F.M. radar. 3,226,715, 12-28-65, Cl. 343-14.

Garfinkle, Marvin. Method and apparatus for oxygen steel-making. 3,212,882, 10-19-65, Cl. 75-60.

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Gariboldi, John M., to United States of America, Navy. Rocket stage coupling. 3,190,221, 6-22-65, Cl. 102-49.

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Garkin, Nikolai N., A. I. Plimenov, and A. M. Sharovsky. Memory for programmed operating controls. 3,217,560, 11-16-65, Cl. 74-568.

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Garland, Bernard, and H. K. Pfyffer, to The General Electric Co. Ltd. Electric oscillator arrangements which supply output signals with stabilized voltage. 3,179,900, 4-20-65, Cl. 331-109.

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Garland, Ronald McG., and E. S. Ashford, to Veeder-Roth Inc. Apparatus for dispensing preselected mixtures of liquids. 3,195,780, 7-20-65, Cl. 222-134.

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Garmaise, David L., A. F. McKay, and G. Y. Paris, to Monsanto Canada Ltd. Chloromethylation of dichlorobenzenes. 3,217,048, 11-9-65, Cl. 260-651.

Garman, John A., to FMC Corp. Vinyl chloride resin plasticized with an epoxidized copolymer of butadiene and xylene. 3,182,035, 5-4-65, Cl. 260-30.4.

Garman, Robert C. Axle puller. 3,200,484, 8-17-65, Cl. 29-263.

Garman, Ted R., to The Cleveland Crane & Engineering Co. Adjustable material handling grab. 3,197,240, 7-27-65, Cl. 294-81.

Garmendia, Joe J. Electrical switch assembly and shaft therefor. 3,226,519, 12-28-65, Cl. 200-166.

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Garner, Abel E., to Garner & Co., Inc. Framed kitchenware. 3,169,041, 2-9-65, Cl. 312-328.

Garner, Abel E., to Garner Co., Inc. Framed pantry ware. 3,216,608, 11-9-65, Cl. 220-4.

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Garner, Abel E. 3,216,608.

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Garner, Fay T. Pusher vehicle. 3,198,551, 8-3-65, Cl. 280-481.

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Garner, Howell D., and H. J. E. Reid, Jr., to United States of America, National Aeronautics and Space Administration. Attitude orientation of spin-stabilized space vehicles. 3,180,587, 4-27-65, Cl. 244-1.

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Garner, Oscar G., and L. Meyerhoff, to General Cable Corp. Graded initial moisture content paper cable. 3,194,871, 7-13-65, Cl. 174-25.

Garner, Percy, to David Brown Industries Ltd. Gear shaving machine. 3,207,035, 9-21-65, Cl. 90-1.6.

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Garnier, Henri L., L. Rubet, L. J. Desroches, R. H. F. Marchal, and L. P. H. Neulen, 1/2 to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, and 1/2 to Commissariat a l'Energie Atomique. Turbomolecular vacuum pump. 3,168,977, 2-9-65, Cl. 230-117.

Garnier, Henri L., L. Rubet, L. J. Desroches, R. H. F. Marchal, and J. Lutz, 1/2 to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, and 1/2 to Commissariat a l'Energie Atomique. Turbomolecular vacuum pump. 3,168,978, 2-9-65, Cl. 230-118.

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Cholvin, Robert L., and Silver. 3,196,806.

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Garrett, Robert R. Solar energy collector. 3,200,820, 8-17-65, Cl. 126-271.

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Garth, Ernest D. G., deceased, by A. B. Young and L. C. May, co-executors. Bedside hanger and surgical bag. 3,220,434, 11-30-65, Cl. 137-374.

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Gartner, Stanley J., to Sylvania Electric Products Inc. Cutting mechanism for assembling apparatus and methods. 3,165,126, 1-12-65, Cl. 140-140.

Gartner, Stanley J., to Sylvania Electric Products Inc. Transfer mechanism for assembling apparatus and methods. 3,190,462, 6-22-65, Cl. 214-1.

Gartner, Stanley J., to Sylvania Electric Products Inc. Piercing and assembling mechanism for assembling apparatus and methods. 3,192,601, 7-6-65, Cl. 29-25.2.

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Garver, Robert V., and D. Y. Tseng, to United States of America, Army. Microwave power amplitude limiter. 3,202,942, 8-24-65, Cl. 333-9.

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Garvey, James. Apparatus and method for inserting indicia in soap. 3,166,329, 1-19-65, Cl. 264-171.

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- Gary, Robert. Safety edge for hangar and other large doors. 3,210,496, 10-5-65, Cl. 200-61.43.
- Gary, Robert. Braking mechanism. 3,217,367, 11-16-65, Cl. 20-19.
- Gary, Timothy F., to Johnson & Johnson. Brush. 3,188,672, 6-15-65, Cl. 15-167.
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- Gary, Wright W. Catalytic converter system for internal combustion engines. Re. 25,787, 6-1-65, Cl. 60-30.
- Gary, Wright W. Catalytic muffler. 3,174,836, 3-23-65, Cl. 23-288.
- Gary, Wright W. Catalytic converter. 3,189,418, 6-15-65, Cl. 23-288.
- Gary, Wright W., Jr., L. Isenberg, J. S. Jones, and M. A. Nader, to Aerojet-General Corp. Laminated acoustic panel with sound absorbing cavities. 3,180,448, 4-27-65, Cl. 181-33.
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- Gasch, Robert H., Jr., E. F. Schmidt, and R. O. Wales, to Honeywell Inc. Optical measuring apparatus using time interval. 3,197,648, 7-27-65, Cl. 250-236.
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- Gash, Virgil W., to Monsanto Co. Process for the liquid phase direct oxidation of olefins to olefin oxides. 3,210,381, 10-5-65, Cl. 260-348.5.
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- Gaska, Remigius A., and H. A. Brejcha, to The Dow Chemical Co. Apparatus for use in procedures requiring agitation in a closed system. 3,206,172, 9-14-65, Cl. 259-27.
- Gaske, Joseph E., and W. H. Brown, to De Soto Chemical Coatings, Inc. Coating compositions. 3,211,693, 10-12-65, Cl. 260-33.6.
- Gaskell, Edward S. Dough-moulding machines. 3,225,714, 12-23-65, Cl. 107-19.
- Gaskell, Joseph, to Gullick Ltd. Roof supports for mines and the like. 3,192,721, 7-6-65, Cl. 61-45.
- Gaskins, Thomas. Saw for palm wood. 3,181,577, 5-4-65, Cl. 143-133.
- Gaspar, Emeric, M. G. Munns, and P. F. Harrison, to The Projectile and Engineering Co. Ltd. Hydraulic motors. 3,174,407, 3-23-65, Cl. 91-61.
- Gasparac, Rudolph J., and H. M. Zoerb, to Nordberg Mfg. Co. Centrifugal feed unit for crusher and method. 3,212,720, 10-19-65, Cl. 241-30.
- Gasparini, Francis A., and J. A. Gormley, to Westinghouse Electric Corp. Dispensing apparatus. 3,189,218, 6-15-65, Cl. 221-125.
- Gasparini, Francis A., and J. E. Howard, Jr., to Westinghouse Electric Corp. Article dispensing mechanism. 3,209,942, 10-5-65, Cl. 221-67.
- Gasparini, Francis A., and J. E. Howard, Jr., to Westinghouse Electric Corp. Selective article dispensing apparatus. 3,209,945, 10-5-65, Cl. 221-67.
- Gass, Robert N., to Hardwick Stove Co. Removable oven door and hinge assembly. 3,170,455, 2-23-65, Cl. 126-194.
- Gass, Rudolf: See—
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- Gasser, Adolf. Method and devices for operating apparatus passed through by record carrying films. 3,208,654, 9-28-65, Cl. 226-12.
- Gasser, Adolf, to Contina Bureaux-und Rechenmaschinen-fabrik Aktiengesellschaft. Motion picture camera with moving indicating means in viewfinder for taking panoramic pictures. 3,212,099, 10-12-65, Cl. 352-69.
- Gasser, Edward B. Automatic intermittent discharge control mechanism. 3,211,336, 10-12-65, Cl. 222-52.
- Gasser, John J., to International Telephone and Telegraph Corp. Machine tool control circuit having a program cross-bar switch and a bridge means for checking crosspoints. 3,175,190, 3-23-65, Cl. 340-147.
- Gasser, Robert A.: See—
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- Gassino, Teresio, to Ing. C. Olivetti & C. S.p.A. Automatic multiplication device for a ten key calculating machine. 3,223,318, 12-14-65, Cl. 235-60.
- Gassino, Teresio, and N. Giolitti, to Olivetti, Ing. C., & C. S.p.A. Amount checking device for adding, calculating, accounting and similar machines. 3,171,594, 3-2-65, Cl. 235-60.47.
- Gassmann, Alois, deceased, by G. Gassmann, administrator, and K. Engel, to Robapharm A.G. 6-nitro-dihydro-1:3-benzoxazine-2:4-dione and derivatives thereof and a process of making same. 3,178,427, 4-13-65, Cl. 260-244.
- Gassmann, Gerhard-Gunter, to International Standard Electric Corp. Circuit for producing a direct voltage as a function of the phase difference between two A.C. voltages. 3,194,971, 7-13-65, Cl. 307-72.
- Gassmann, Grete: See—
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- Gassmann, Johannes: See—
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- Gassmann, Johannes, and R. Ehrhardt, to Daimler-Benz Aktiengesellschaft. Rotary-piston engine construction. 3,207,426, 9-21-65, Cl. 230-145.
- Gast, Arthur F., F. L. Lempert, and C. H. Viens, to Pullman Inc. Hydrocracking process with desulfurization and denitrogenization of the feed oil and the separation of hydrogen and hydrocarbon gases from the products. 3,206,389, 9-14-65, Cl. 208-58.
- Gast, Dwight, 50% to H. A. Kirk. Buttonless shirt collar. 3,203,004, 8-31-65, Cl. 2-128.
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- Gaston, Aime: See—
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- Gaston, Dexter W., to Wall Rope Works, Inc. Cordage and methods of manufacture thereof. 3,164,947, 1-12-65, Cl. 57-140.
- Gaston, Jack E., to Armstrong Cork Co. Mineral wool quality test. 3,222,924, 12-14-65, Cl. 73-159.
- Gaston, Theophile and A. 3,218,988, 11-23-65, Cl. 104-191.
- Gaston, William R., and D. O. Richards, to Owens-Corning Fiberglass Corp. Thermal insulation. 3,222,243, 12-7-65, Cl. 161-113.
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- Gaszak, Richard J., to General Electric Co. Method of manufacturing a resistance-heating type water heater. 3,174,211, 3-23-65, Cl. 29-155.5.
- Gatfer, George and H. H. Bowerman, to The B. F. Goodrich Co. Process for halogenation of synthetic resins. 3,167,533, 1-26-65, Cl. 260-92.6.
- Gateley, Frank R. Set of arm accessories for chairs. 3,206,249, 9-14-65, Cl. 297-416.
- Gates, Albert G. R., to Gestetner Ltd. Pneumatically controlled device for preventing impression if paper is not fed. 3,203,376, 9-28-65, Cl. 101-118.
- Gates, Herbert H. Insulator string and bonding brush. 3,196,204, 7-20-65, Cl. 174-141.
- Gates, Hessler H., and A. I. Bean, to The Fellows Gear Shaper Co. Tooth space measuring machine. 3,188,745, 6-15-65, Cl. 33-179.5.
- Gates, John S., T. V. Ballard, and G. D. Noyes, to Chrysler Corp. Servo regulator valve. 3,215,397, 11-2-65, Cl. 231-50.
- Gates, John W., Jr., W. G. Lovett, and P. E. Miller, to Eastman Kodak Co. Photographic emulsions containing carbonylmethylated pigskin gelatin. 3,184,312, 5-18-65, Cl. 96-94.
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- Gates Rubber Co.: See—
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- Walters, Donald T., and Moore. 3,177,917.
- Gates, Thomas S., to National Broach & Machine Co. Gear finishing equipment. 3,182,558, 5-11-65, Cl. 90-1.6.
- Gates, Thomas S., K. J. Davis, and A. B. Bassoff, to National Broach & Machine Co. Improved tool and tool slide driving means in gear finishing machines. 3,195,409, 7-20-65, Cl. 90-1.6.
- Gates, Thomas S., C. H. Motz, R. W. Anthony, J. Beckman, Jr., and L. G. Skalsey, to National Broach & Machine Co. Single station multi-master gear gauge. 3,214,842, 11-2-65, Cl. 33-179.5.
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- Gates, William H., and R. L. Harris, to Allied Chemical Corp. Process for producing paper-lined by-product gypsum products. 3,181,985, 5-4-65, Cl. 156-39.
- Gateway Building Products Co.: See—
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- Gathmann, Mark H., to United States Steel Corp. Two part hot top. 3,208,116, 9-28-65, Cl. 22-200.
- Gatiss, Norman E.: See—
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- Gatke, Frank T. Curling stone. 3,188,088, 6-8-65, Cl. 273-128.
- Gatlin, James A., and A. B. Shimp, to Westinghouse Electric Corp. Excitation system for a dynamoelectric machine. 3,211,987, 10-12-65, Cl. 322-24.
- Gatsis, John G.: See—
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- Gleim, William K. T., Gatsis, and O'Hara. 3,180,820.
- Gatsis, John G., to Universal Oil Products Co. Hydrorefining of crude oil and catalyst therefor. 3,173,860, 3-16-65, Cl. 208-264.
- Gatsis, John G., to Universal Oil Products Co. Hydrorefining of crude oil and catalyst therefor. 3,180,822, 4-27-65, Cl. 208-264.
- Gatsis, John G., and W. K. T. Gleim, to Universal Oil Products Co. Hydrorefining of petroleum crude oil and catalyst therefor. 3,166,484, 1-19-65, Cl. 208-264.
- Gatsis, John G., and W. K. T. Gleim, to Universal Oil Products Co. Hydrorefining of petroleum crude oil and catalyst therefor. 3,169,919, 2-16-65, Cl. 208-264.
- Gattiker, Albert F., Jr., to Ingersoll-Rand Co. Wire inserting and cutting device. 3,168,750, 2-9-65, Cl. 7-14.1.
- Gattiker, Albert F., Jr., to Ingersoll-Rand Co. One shot clutch. 3,220,526, 11-30-65, Cl. 192-150.
- Gattiker, David C., and G. J. Fohlisch, to St. Paul Ammonia Products, Inc. Nitrate removal from phosphoric acid liquors. 3,195,980, 7-20-65, Cl. 23-165.
- Gattiker, David C., and G. J. Fohlisch, to St. Paul Ammonia Products, Inc. Nitric acid acidulation of phosphate rock. 3,205,062, 9-7-65, Cl. 71-39.
- Gatto, Charles: See—
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- Gatto, Charles. Conveyor apparatus. 3,170,564, 2-23-65, Cl. 198-165.
- Gattoni, Richard S., to Wellington Sears Co., Inc. Terry cloth and method of making same. 3,187,782, 6-8-65, Cl. 139-396.
- Gatruigerl, Giovanni, to Edison. Method and apparatus for producing flexible bags having transverse bottoms. 3,214,312, 10-26-65, Cl. 156-69.
- Gattuso, Francis V. Adjustable and detachable, lower abdominal support for trousers. 3,185,158, 5-25-65, Cl. 128-519.
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- Gatz, Ray J., and W. E. Beutler, to The Lamson & Sessions Co. Lifting and dumping apparatus. 3,199,697, 8-10-65, Cl. 214-620.
- Gatza, Eugene M., to The Dow Chemical Co. Thickened acidic compositions. 3,216,962, 11-9-65, Cl. 260-29.6.
- Gatzmeyer, Jacob B., and N. E. Starkey, to General Electric Co. Two shaft gas turbine control system. 3,168,810, 2-9-65, Cl. 60-39.16.
- Gatzert, Ernest H., and G. W. Killian, to General Dynamics Corp. Night answering and transfer of trunk calls. 3,176,080, 3-30-65, Cl. 179-27.
- Gau, Leonard P.: See—
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- Gauban, Daniel, to Electricite de France (Service National). Safety core-sampling apparatus. 3,187,824, 6-8-65, Cl. 175-78.
- Gauban, Daniel, and J. Raclet, to Inventions Finance Corp. Apparatus for clamping mold parts. 3,195,186, 7-20-65, Cl. 18-43.
- Gaubatz, Arthur W., to General Motors Corp. Filament winding of rocket cases. 3,174,388, 3-23-65, Cl. 86-1.
- Gaube, Erwin: See—
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- Gaubis, Leonard L., and E. H. Kuslak, to United Aircraft Corp. Feathered propeller control. 3,170,521, 2-23-65, Cl. 170-160.29.
- Gaucet, Jean, to Anciens Etablissements Leon Gaucet. Vibrating exhaustor for silos. 3,216,626, 11-9-65, Cl. 222-199.
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- Gaudet, Harold D.: See—
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- Frechette, Leo P., and Gaudet. 3,217,850.
- Gaudet, Joseph E. Sewing machine attachment. 3,175,333, 3-30-65, Cl. 51-257.
- Gaudet, Marion H., to Traina Ball, Inc. Ball game device. 3,214,166, 10-26-65, Cl. 273-26.
- Gaudin, Antoine M.: See—
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- Gaudio, Nicholas, to Felsenthal Instruments Co., Inc. Flight data computer. 3,220,644, 11-30-65, Cl. 235-78.
- Gauditz, Robert T.: See—
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- Gaudriot, Henri L., and E. C. Hartmann. Method and apparatus for storing bar stock articles. 3,173,556, 3-16-65, Cl. 214-8.
- Gaudry, Paul E., to Electroflux, Aktiebolaget. Surface treating apparatus. 3,216,035, 11-9-65, Cl. 15-49.
- Gauer, Walter. Sheet metal edging apparatus. 3,206,965, 9-21-65, Cl. 72-206.
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- Gaugler, Richard S., to General Motors Corp. Surface cooking unit for an electric range. 3,167,639, 1-26-65, Cl. 219-370.
- Gaugler, Richard S., to General Motors Corp. Electrical resistance device. 3,175,177, 3-23-65, Cl. 338-28.
- Gaugler, Richard S., to General Motors Corp. Washing machine with a reciprocable and rotatable drive motor. 3,184,933, 5-25-65, Cl. 68-23.
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- Gauld, William J.: See—
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- Gauldie, Kenneth, to Hydraulic Crushers Ltd. Thrust transmitting apparatus for jaw crushers. 3,170,644, 2-23-65, Cl. 241-264.
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- Gaulding, Jasper C.: See—
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- Gaulin, Joseph G. Inking mechanism. 3,186,335, 6-1-65, Cl. 101-157.
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- Gault, John M., to International Rectifier Corp. Unijunction transistor device. 3,163,916, 1-5-65, Cl. 29-25.3.
- Gault, John M., to International Rectifier Corp. Housing for semiconductor devices. 3,193,612, 7-6-65, Cl. 174-62.
- Gault, John M., to International Rectifier Corp. Field effect transistor. 3,217,215, 11-9-65, Cl. 317-235.
- Gault, Robert L., and D. L. Haas, to Westinghouse Electric Corp. Cooking range revolving platform. 3,165,627, 1-12-65, Cl. 219-444.
- Gault, Stanley C., to General Electric Co. Washing machine. 3,213,650, 10-26-65, Cl. 68-12.
- Gault, Vincent A.: See—
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- Gaumer, Lee S., Jr., to Air Products and Chemicals, Inc. Separation of gaseous mixtures including argon. 3,173,778, 3-16-65, Cl. 62-22.
- Gaumer, Lee S., Jr., to Air Products and Chemicals, Inc. Method for low temperature separation of gaseous mixtures. 3,210,951, 10-12-65, Cl. 62-29.
- Gaunt, Wilmer B., Jr., to Bell Telephone Laboratories, Inc. Resonant transfer time division multiplex system utilizing negative impedance amplification means. 3,202,763, 8-24-65, Cl. 179-15.
- Gauriat, Roger, to Cie Electro-Mecanique. Apparatus for manufacturing metal parts by deformation. 3,170,343, 2-23-65, Cl. 80-24.
- Gause, Bruce R., to Carl N. Swenson Co., Inc. Crypt form. 3,167,839, 2-2-65, Cl. 25-130.
- Gause, Lawrence J., 49% to C. M. Snyder. Meat molding machine. 3,177,524, 4-13-65, Cl. 17-32.
- Gausemann, Paul, and K. Kube, to Wilhelm Harting Werk fur Elektrotechnik und Mechanik. Electrically operated money changer. 3,191,609, 6-29-65, Cl. 133-6.
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- Gauss, William F., to Mobay Chemical Co. Packaging methods. 3,190,442, 6-22-65, Cl. 206-46.
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- Rentschler, Waldemar T. 3,223,012.
- Rentschler, Waldemar T. 3,223,013.
- Rentschler, Waldemar T. 3,223,016.
- Rentschler, Waldemar T., Heiber, and Straub. 3,223,015.
- Rentschler, Waldemar T., and Pross. 3,223,010.
- Starp, Franz W. R. 3,187,654.
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- Gauthier, George E., to General Electric Co. Segmented contact assembly having pivotal and sidewise-rotatable contact segments. 3,194,934, 7-13-65, Cl. 200-166.
- Gauthier, George E., to General Electric Co. Terminal connections for circuit protective devices. 3,204,150, 8-31-65, Cl. 317-119.

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- Gautier, Philippe J.-B., and M. Provoost, to Compagnie de Saint-Gobain. Complex fertilizers. 3,193,374, 7-6-65, Cl. 71-41.
- Gautier, Philippe J.-B., and M. Provoost, to Produits Chimiques Pechiney Saint-Gobain. Complex fertilizers of potassium tripolyphosphate base. 3,218,150, 11-16-65, Cl. 71-51.
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- Gauvain, Roger, to Societe Alsacienne de Constructions Mecaniques. Control mechanism for feed equipment of rectilinear combers. 3,184,779, 5-25-65, Cl. 19-225.
- Gauvreau, Alphonse P., to R. B. Denison. Limit switch. 3,202,001, 8-24-65, Cl. 74-97.
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- Gavlin, Gilbert, and K. Hattori, to The Richardson Co. Preparation of 2-aminoethyl hydrogen sulfate. 3,169,143, 2-9-65, Cl. 260-458.
- Gavlin, Gilbert, E. A. Hedman, and B. W. Hubbard, Jr., to The Richardson Co. Propylene-butadiene elastomer and process. 3,197,448, 7-27-65, Cl. 260-85.3.
- Gavreau, Vladimir, A. Calabra, and M. Miane, to Centre National de la Recherche Scientifique. Automatic and remote-control systems by mechanical speed-counters. 3,189,764, 6-15-65, Cl. 307-115.
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- Gawlick, Heinz, and H. Bendler, to Dynamit Nobel Aktiengesellschaft. Percussion cap. 3,169,483, 2-16-65, Cl. 102-86.5.
- Gawne, Daniel, and P. R. Fortier. Display holder. 3,205,601, 9-14-65, Cl. 40-136.
- Gawreluk, Demeter, to J. I. Case Co. Power transmission. 3,198,107, 8-3-65, Cl. 100-188.
- Gawreluk, Demeter, to J. I. Case Co. Agricultural implement. 3,203,429, 8-31-65, Cl. 130-27.
- Gawron, Alex F., to Skill Corp. System for controlling electric motors in power tools and the like. 3,209,228, 9-28-65, Cl. 318-345.
- Gay, Arthur S. Method of handling and transporting paint. 3,212,538, 10-19-65, Cl. 141-9.
- Gay, Benjamin A., and D. A. Moyant, to Atlas Chemical Industries, Inc. Electrical switch having deformable contact members. 3,178,540, 4-13-65, Cl. 200-142.
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- Gay, Georges F., and S. M. Sassler, to Massey-Ferguson S.A. Pivoted share root crop harvester. 3,198,260, 8-3-65, Cl. 171-106.
- Gay, Herman P. Strain type transducers. 3,184,962, 5-25-65, Cl. 73-88.5.
- Gay, Lawrence H., to Deere & Co. Telescoping discharge spout. 3,168,946, 2-9-65, Cl. 193-6.
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- Magers, Lloyd E. 3,176,953.
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- Gaylord, John A., to H. Koch & Sons. Safety locking device for the inflating means in aerial survival kits. 3,165,763, 1-19-65, Cl. 9-11.
- Gaylord, John A., to H. Koch & Sons. Quick engaging buckle for safety belts. 3,165,803, 1-19-65, Cl. 24-225.
- Gaylord, John A., to H. Koch & Sons. Actuating devices for aerial survival kits. 3,182,928, 5-11-65, Cl. 244-1.
- Gaylord, John A., to H. Koch & Sons. Canopy release. 3,183,568, 5-18-65, Cl. 24-230.
- Gaylord, John A., to H. Koch & Sons. Disconnect device for survival kits. 3,185,148, 5-25-65, Cl. 128-142.
- Gaylord, John A., to H. Koch & Sons, Inc. Snap fastener for a loop or strap. 3,187,395, 6-8-65, Cl. 24-235.
- Gaylord, John W., to Radio Corp. of America. High frequency high power electron discharge device and electrode mount therefor. 3,172,001, 8-2-65, Cl. 313-247.
- Gaylord, John W., and J. B. Pyle, to Radio Corp. of America. Electron tube having a novel electrode support arrangement. 3,197,666, 7-27-65, Cl. 313-255.
- Gaylord, Norman G., to Interchemical Corp. Graft copolymers from monomers of norbornenes, acrylates, acrylics, and amine-aldehyde and inks thereof. 3,196,124, 7-20-65, Cl. 260-30.6.
- Gaylord, William M., Jr., and J. F. Knott, III, to Union Carbide Corp. Apparatus for diluting acids and alkalis. 3,201,205, 8-17-65, Cl. 23-283.
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- Geary, Milford. Imposition thrust engine and vehicle. 3,198,459, 8-3-65, Cl. 244-73.
- Geary, Robert J., to Plant Products Corp. Insecticidal compositions containing lignin sulfonic acid. 3,164,516, 1-5-65, Cl. 167-42.
- Geary, Robert J., to Plant Products Corp. Pesticidal resin and method of preparing same. 3,223,513, 12-14-65, Cl. 71-2.3.
- Geary, William R. C. Animal handling apparatus. 3,190,265, 6-22-65, Cl. 119-103.
- Geary, William R. C. Holding and conveying apparatus for facilitating the treatment of animals. 3,215,120, 11-2-65, Cl. 119-98.
- Gebauer, Bodo G., to Automatic Electric Laboratories, Inc. Welding apparatus. 3,193,657, 7-6-65, Cl. 219-78.
- Gebel, Radames K. H., to United States of America, Air Force. Secondary emission multiplier intensifier image orthicon. 3,191,086, 6-22-65, Cl. 313-65.
- Gebel, Radames K. H., to United States of America, Air Force. Sequential light amplifier system. 3,217,099, 11-9-65, Cl. 178-6.8.

- Geber, Eugene E. Revolver firing mechanism. 3,176,423, 4-6-65, Cl. 42-65.
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- Gebhardt, Wilhelm, and H. Gibbels, to Siemens-Elektrogerate Aktiengesellschaft. Door seal for household appliances. 3,223,276, 12-14-65, Cl. 220-46.
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 Cohen, Merrill. 3,219,624.
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 Cole, Samuel W. 3,184,914.
 Colley, William C., Jr. 3,176,465.
 Collins, Harold B., Jr., Steinmayer, and Jones. 3,209,258.
 Collins, Lawrence R. 3,173,730.
 Collins, Robert P., and Lee. 3,215,829.
 Connelly, Joseph M. 3,202,860.
 Cooley, John R. 3,200,226.
 Coombs, Verner D. 3,187,566.
 Cooper, David, De Koranyi, and Zelina. 3,188,427.
 Cooper, James, Jr. 3,189,478.
 Cooper, James M., and Welch. 3,164,338.
 Coppola, Patrick P. 3,221,197.
 Corey, Philip D. 3,217,171.
 Cornell, William G., Colon, Weinig, and Shattuck. 3,216,455.
 Corson, Almon J. 3,218,554.
 Cory, Howard E. 3,179,869.
 Coyne, Gerard G. 3,210,958.
 Crain, Norman R. 3,167,662.
 Crane, Hewitt D. 3,178,582.
 Cressman, George W. 3,199,316.
 Crew, Richard F. 3,208,920.
 Criffield, Melvin E. 3,188,047.
 Crouch, Donald W., and Lee. 3,211,866.
 Crutcher, William C. 3,198,433.
 Cubbage, John F. 3,183,485.
 Cubbage, John F. 3,183,490.
 Culbertson, Robert J. 3,196,272.
 Cullen, William F. 3,217,203.
 Cunningham, Clarence V., and Lichtenfels. 3,184,664.
 Cushing, Donald S. 3,169,541.
 Cutler, John H., and Britten. 3,218,567.
 Cuzzone, Raymond. 3,173,477.
 Czerkies, John R., and Peck. 3,202,279.
 D'Adamo, Joseph B. 3,219,965.
 Dally, Roy. 3,219,352.
 Dally, Roy. 3,220,737.
 Dally, Roy. 3,220,738.
 Daniels, Franklin W. 3,225,276.
 Danko, George K. 3,194,625.
 Davies, Robert L. 3,172,068.
 Davis, Louis K. 3,226,062.
 Davis, Reuel L., Jr. 3,212,172.
 Davis, Richard K. 3,209,351.
 Davis, Richard K., and Bailey. 3,169,242.
 Davis, Richard K., and Bailey. 3,210,759.
 Davis, Richard K., and Garels. 3,209,350.
 Dehn, Rudolph A. 3,197,720.
 De Hollander, William R. C. 3,209,845.
 De Jean, Milton V., and Lacy. 3,222,234.
 De Puy, Robert P. 3,176,212.
 De Wolf, George L. 3,214,662.
 Demo, Raymond D. 3,177,594.
 Denny, John P., and Hardt. 3,181,936.
 Denson, Costel D. 3,205,192.
 Denton, Bryce A. 3,188,757.
 Denton, Bryce A. 3,188,758.
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 Devol, James C., and Kirk. 3,177,391.
 Dewes, Roger A., and Goodale. 3,198,945.
 Diefendorf, Russell J. 3,172,774.
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 Diehl, Max H. 3,178,593.
 Diehl, Paul H., and Sorensen. 3,173,202.
 Dillon, Eugene F. 3,195,093.
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 Dinger, Edward H. 3,187,203.
 Dinger, Edward H. 3,223,908.
 Dixon, Francis E. 3,212,041.
 Dome, Robert B. 3,172,052.
 Dome, Robert B. 3,184,547.
 Dome, Robert B. 3,219,759.
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 Dove, Donald E. 3,187,260.
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 Driesch, Theodore W., and McFarland. 3,205,325.
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 Dvorin, Martin. 3,181,872.
 Eadie, Edward M., Jr. 3,213,366.
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 Edson, William A. 3,185,978.
 Edwards, Harold H., and Newhouse. 3,219,841.
 Eggenberger, Markus A., and Troutman. 3,198,954.
 Ehlert, Ralph C. 3,205,353.
 Els, Ralph O. 3,165,655.
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 Elder, James C. 3,182,242.
 Ellenberger, Francis R. 3,176,959.
 Ellenberger, Francis R. 3,202,397.
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 Elliott, John R., and Cooper. 3,175,995.
 Engelman, Helmut W. 3,182,182.
 Eppig, Henry J., and Kennedy. 3,194,110.
 Ericson, Eric A. 3,212,741.
 Erwin, John R. 3,172,621.
 Erwin, John R., and Smith. 3,193,185.
 Evans, John T. 3,173,001.
 Evans, John T. 3,223,830.
 Evans, John T., and Lukens. 3,211,896.
 Evans, Ross M., Jr., and Hayba. 3,217,352.
 Falk, Richard B. 3,198,717.
 Falk, Ronald E. 3,181,041.
 Feher, Alexander, Jr. 3,179,756.
 Feher, Alexander, Jr. 3,221,115.
 Feher, Joseph A., Jr. 3,172,013.
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 Fenner, Gunther E. 3,173,014.
 Ferrigno, William L., Jr. 3,221,317.
 Fiedler, Howard C. 3,184,346.
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 Fields, John H., Propster, and Masters. 3,225,334.
 Finlayson, Frank E., and Swenson. 3,183,610.
 Fischer, Lee J. 3,186,491.
 Fisher, Alec. 3,198,975.
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 Fitzmayer, Louis H. 3,172,087.
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 Fitzroy, Roland V., Jr., and Cooper. 3,182,244.
 Fliss, Carl T. 3,207,358.
 Flowers, Ralph G. 3,172,921.
 Fogelquist, Jack D. 3,217,307.
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 Foote, Lawrence R. 3,209,226.
 Forrer, Max P. 3,210,594.
 Forslund, Herbert B., and Fulton. 3,211,576.
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 Foster, Harold S., and Logg. 3,175,316.
 Foster, Raymond F. 3,219,932.
 Fox, Daniel W. 3,220,974.
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 Fox, James E. 3,208,847.
 Frank, Edward J. 3,191,096.
 Frank, Gerald F. 3,202,907.
 Frankel, Stanley P. 3,187,308.
 Franko, Fredrick M. 3,187,406.
 Freedman, Meyer L. 3,183,282.
 Freeman, Arthur H. 3,222,780.
 Friedlander, Erich S. 3,193,758.
 Friend, Aaron L. 3,172,091.
 Friend, Aaron L. 3,193,812.
 Fruin, Robert E., and Newhouse. 3,182,209.
 Fruin, Robert E., and Newhouse. 3,182,293.
 Fullman, Robert L. 3,164,896.
 Furbee, Avery D. 3,198,944.
 Gallen, Alexander J., McCurry, and Schneider. 3,202,897.
 Gaszak, Richard J. 3,174,211.
 Gatzemeyer, Jacob B., and Starkey. 3,168,810.
 Gault, Stanley C. 3,213,650.
 Gauthier, George E. 3,194,934.
 Gauthier, George E. 3,204,150.
 Gauthier, George E. 3,218,428.
 Gaynor, Joseph, Burgess, and Wagner. 3,189,481.
 Gaynor, Joseph, Burgess, and Wagner. 3,203,836.
 Gelbard, Robert B. 3,201,032.
 Geller, Harry. 3,182,854.
 Geller, Harry. 3,207,831.
 Gempler, Edward B., and Watson. 3,207,940.
 Genuit, Luther L. 3,170,085.
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 Georgiev, Peter, and Ray. 3,164,792.
 Gesmar, Jorgen. 3,201,893.
 Gethmann, Richard H. 3,217,200.
 Getman, Clarence. 3,189,020.
 Getman, Clarence. 3,189,375.
 Gettys, Briggs. 3,213,667.
 Gibbons, Martin D. 3,174,063.
 Gibson, Van R., Jr., and Kemeny. 3,215,920.
 Gilbert, Elliott M. 3,197,691.
 Gilbert, Kendall. 3,211,423.
 Girard, Roland T. 3,219,480.
 Gitzendanner, Louis G. 3,191,079.
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 Glenn, William E., Jr. 3,209,072.
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 Goldberg, Eugene P. 3,220,973.
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 Golik, Edwin R. 3,222,455.
 Goodale, Edmund E., Rochlin, and Verbinski. 3,221,165.
 Goodman, Joe, Jr. 3,172,038.
 Goodman, Thomas P. 3,172,287.
 Goodman, Thomas P. 3,172,630.
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 Goor, Dan. 3,206,686.
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 Gordon, Walter H., Jr. 3,204,066.
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 Gorowitz, Bernard, and Goersen. 3,221,212.
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 Graham, Donald C. 3,214,718.
 Grams, William R., and Weininger. 3,211,967.
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 Grattidge, Walter. 3,176,186.
 Graves, Donald E. 3,205,360.
 Gray, Willard F. M., and Moser. 3,170,225.
 Green, Alvin C. 3,226,597.
 Greenwood, Allan N. 3,225,167.
 Greenwood, Allan N., and Porter. 3,185,799.
 Grgetic, Edward F. 3,194,389.
 Grissel, Richard W. 3,167,678.
 Grimshaw, Charles. 3,177,321.
 Grobel, Lloyd P. 3,168,666.
 Guenther, Carl, and Argue. 3,201,055.
 Guth, Lauren W., and Thurman. 3,198,443.
 Gutzwiller, Frank W. 3,165,688.
 Gutzwiller, Frank W. 3,213,349.
 Gutzwiller, Frank W. 3,222,558.
 Hall, Robert N. 3,201,666.
 Halverstadt, Robert D., Stewart, and Hunt. 3,216,854.
 Hamilton, Douglas J. 3,178,692.
 Hamilton, William L. 3,217,127.
 Hammerly, Herman J. 3,171,919.
 Hanchett, Leland J., Jr. 3,204,950.
 Hannam, Herbert J. 3,207,937.
 Hansler, Richard L. 3,188,513.
 Hardy, Albert L., Hauser, and Stiner. 3,186,652.
 Harman, Ward A. 3,214,632.
 Harpley, Theodore R. 3,165,668.
 Harpley, Theodore R. 3,167,683.
 Harrington, Dean B. 3,201,627.
 Harris, Lawrence A., and De Tommasi. 3,196,043.
 Hart, Benjamin F. 3,211,032.
 Hart, Benjamin F., Carlson, and Zubal. 3,206,964.
 Hartmanis, Juris, and Lewis. 3,174,031.
 Harvey, Luke M. 3,211,936.
 Hauge, Lee J. 3,209,245.
 Havn, Svend E., and Namordi. 3,215,888.
 Hawthorne, Vaughn T. 3,172,085.
 Hay, Allan S. 3,173,933.
 Hay, Allan S. 3,176,039.
 Hay, Allan S. 3,210,384.
 Hayba, Franklin P. 3,217,351.
 Heard, George G., Jr. 3,215,820.
 Heft, Eldon B. 3,211,867.
 Hein, Walter J. 3,167,688.
 Heinlein, Leon T. 3,194,999.
 Heintz, Milton L. 3,189,708.
 Helberg, Harry J. 3,185,948.
 Hellar, Martin W., Jr. 3,212,615.
 Herold, Henry L., and Tucker. 3,219,978.
 Herrick, Carlyle S. 3,201,275.
 Herrick, Carlyle S. 3,212,038.
 Heumann, Frederick K. 3,201,227.
 Hibbard, Walter R., Jr., and Walter. 3,164,496.
 Hickey, John S., Jr. 3,223,950.
 Hickle, James C. 3,206,329.
 Hicks, William R., and Kronson. 3,189,995.
 Hoag, Yates M. 3,173,306.
 Hoag, Yates M. 3,196,357.
 Hobson, Charles F., Jr. 3,205,410.
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 Hodge, William F. 3,195,001.
 Hodge, William F. 3,219,872.
 Hodges, Merwyn E. 3,176,190.
 Hoffman, Herbert N. 3,185,854.
 Hogue, Lawrence J. 3,185,906.
 Hogue, Marcus P. 3,182,111.
 Hogue, Marcus P. 3,210,577.
 Holcomb, Richard H. 3,195,002.
 Holcomb, Richard H. 3,211,938.
 Holcomb, Richard H., and Thomasson. 3,211,826.
 Holdstock, Norman G. 3,182,076.
 Holeman, John M. 3,185,022.
 Holl, Peter M. 3,169,369.
 Hollister, Edwin S. 3,183,738.
 Holtslag, David J. 3,175,962.
 Hopkins, Ernest J. 3,196,290.
 Hopper, Claude, Jr. 3,197,546.
 Horach, James R. 3,170,140.
 Horvay, Julius B. 3,225,564.
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 Hsu, Hsiung, and Wanuga. 3,193,772.
 Hudson, LeRoy F., Jr. 3,169,223.
 Hudson, Robert C. 3,170,091.
 Hueschen, Robert E. 3,211,940.
 Hueschen, Robert E. 3,222,558.
 Hughes, Philip G. 3,192,642.
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 Hughes, William C., and Wolfe. 3,195,112.
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 Hughes, William C., Wolfe, and Glenn. 3,225,335.
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 Hume, Roger E. 3,225,255.
 Hummel, Wiley M. 3,210,503.
 Hummel, Wiley M. 3,210,714.
 Humphrey, John G. 3,192,316.
 Hunt, William R. 3,224,819.
 Hurley, Michael G. 3,189,871.
 Hurwitz, Henry, Jr. 3,183,379.
 Hurwitz, Henry, Jr., and Koenig. 3,183,403.
 Hurwitz, Henry, Jr., and Sutton. 3,183,380.
 Hutt, Philip. 3,169,174.
 Hutt, Philip. 3,201,564.
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 Jacobs, Lewis W., and Sabatella. 3,165,372.
 Jakowatz, Charles V. 3,168,645.
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 Jarvie, Alexander G., and Stimson. 3,217,957.
 Jellies, David A. 3,199,525.
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 Jencks, Charles L., and Klein. 3,171,936.
 Jencks, Charles L., and Stokes. 3,171,929.
 Jenkins, Thomas E. 3,179,481.
 Johnson, Carl R., and Propster. 3,173,000.
 Johnson, Daniel. 3,214,751.
 Johnson, Joseph F. 3,172,014.
 Johnson, Peter D. 3,191,406.
 Johnson, Wallace M. 3,185,946.
 Johnston, Frank C., and Krauss. 3,182,381.
 Johnston, Frank C., and Krauss. 3,183,299.
 Jones, Howard T. 3,189,857.
 Jones, Samuel P. 3,192,424.
 Kaeding, Hugo C. 3,196,297.
 Kamide, Harris P. 3,221,141.
 Kamide, Harris P. 3,221,142.
 Kamide, Harris P. 3,221,144.
 Kaminski, Joseph, Jr., and Becker. 3,165,284.
 Kane, Hugh, and Pusch. 3,170,057.
 Kappus, Peter G. 3,176,934.
 Kappus, Peter G. 3,212,731.
 Kappus, Peter G. 3,216,654.
 Kast, Howard B. 3,212,752.
 Katchman, Arthur, and Cooper. 3,175,994.
 Kaye, Anthony J. 3,206,857.
 Kearns, William J. 3,204,140.
 Keating, Charles A. 3,192,610.
 Keeling, Kermit B., Sr., and Baughman. 3,176,541.
 Kelley, Fred W., Jr. 3,191,117.
 Kelling, Leroy U. C. 3,226,649.
 Kellogg, Harry L. 3,222,592.
 Kelly, Frederick J., and McKee. 3,215,510.
 Kendt, Norman L., and Dicken. 3,198,387.
 Kennedy, Edwin C. 3,191,397.
 Kestner, Harold R., and Kuebler. 3,169,205.
 Ketterer, Richard J. 3,183,115.
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 Kettlety, Robert W. 3,213,267.
 Keyser, John E., and Wheeler. 3,167,620.
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 Kiely, Richard H. 3,183,315.
 Kimball, Alvin L. 3,190,041.
 Kinkle, Robert A. 3,177,334.
 Kirkness, Robert H., and Wayman. 3,196,426.
 Kirschke, Norman W. 3,213,266.
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 Klebe, Johann F. 3,172,874.
 Klebe, Johann F. 3,207,707.
 Klein, John A., and Zuerker. 3,195,067.
 Klein, Keith W., and Powell. 3,171,920.
 Klein, Keith W., and Powell. 3,171,927.
 Klein, Keith W., and Powell. 3,171,930.
 Klein, Leon. 3,226,559.
 Koller, Lewis R., and Coghill. 3,188,594.
 Konikoff, John J. 3,218,758.
 Kotheimer, William C. Re. 25,762.
 Koval, Leonide P., and Sirois. 3,179,768.
 Krackhardt, Elliott M. 3,215,880.
 Kresge, James S. 3,173,086.
 Krug, George A., Jr. 3,223,881.
 Krug, George A., Jr. 3,225,249.
 Krzewina, Thomas. 3,212,675.
 Kudlack, Henry W. 3,225,231.
 Kuhn, Donald H. 3,205,501.
 Kukla, Robert F. 3,188,592.
 Kutney, John T. 3,212,733.

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La Forest, James J. 3,192,310.
Lamoreaux, Harry F. 3,197,432.
Lamoreaux, Harry F. 3,197,433.
Lamoreaux, Harry F. 3,220,972.
Lawrence, Jackson. 3,176,165.
Lawrence, Jackson, and Wilson. 3,223,857.
Lawson, Alfred C., Darlo, and D'Alessandro. 3,171,623.
Lawson, Gustaf R. 3,167,372.
Lawson, Gustaf R. 3,178,530.
Lawton, Elliott J., and Gurewitsch. 3,176,129.
Lee, Donald E. 3,217,157.
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Lehmann, Clarence R., and Poynter. 3,187,444.
Lemmerman, Harold H. P. 3,203,259.
Lemmond, Charles Q. 3,171,106.
Lennon, David C. 3,169,179.
Lennon, David C. 3,193,652.
Letteron, Henry A. 3,213,185.
Levinthal, Jay G. 3,219,977.
Levand, Victor A., Jr. 3,168,670.
Levand, Victor A., Jr. 3,211,511.
Lever, Ray C., and Paine. 3,186,228.
Levins, Dave B. 3,171,280.
Levins, Dave B. 3,200,645.
Levinthal, Jay G., and Crain. 3,226,682.
Lewis, Winde H. 3,196,307.
Libby, Henry T. 3,182,178.
Lindt, Stanley L., and Woods. 3,200,273.
Linker, Joe B., Jr., and Farokhrooz. 3,178,654.
Lock, Richard G. 3,195,010.
Loewenthal, Henry J., and Roberts. 3,174,642.
Locrini, Donald F. 3,182,073.
Locrini, Donald F. 3,182,074.
Long, James. 3,187,243.
Long, James. 3,192,482.
Longfellow, Herbert W. 3,226,272.
Lord, Harold W. 3,222,573.
Love, Robert W. 3,172,589.
Low, Frank D. 3,178,914.
Low, Frank D. 3,220,226.
Low, Frank D. 3,220,228.
Luborsky, Fred E. 3,198,716.
Lukens, George B., II. 3,174,367.
Lustenader, Edward L. 3,196,087.
Lynch, Edward I. 3,215,770.
Lynch, Donald W. 3,217,423.
Lynch, Henry E. 3,164,367.
Macelloni, Piero B. 3,164,710.
MacFadyen, Kenneth W., and Polito. 3,170,986.
Maclean, George. 3,178,179.
Malota, Ladislav. 3,171,908.
Malota, Ladislav, and Olashaw. 3,179,761.
Manfredi, Robert E., Koskos, and Ammenheuser. 3,200,283.
Mansfield, Walter C., Jr. 3,201,646.
Manteuffel, Erich W., and Kovatch. 3,165,685.
Mapelsden, George C. 3,198,893.
Marcotte, Robert A. 3,176,550.
Marfut, Andrew M. 3,194,998.
Marra, Roscoe E. 3,170,344.
Marsden, James. 3,167,528.
Martin, Robert L., and Benander. 3,217,116.
Martiniak, Leonard J. 3,170,743.
Martiniak, Leonard J. 3,213,866.
Masters, David W., and Herold. 3,178,690.
Mathews, Charles A. 3,179,850.
Mathews, Charles A., and Smith. 3,202,876.
Maul, William J., Opper, and Rathbun. 3,223,890.
Mauro, Jack A. 3,206,603.
Maxwell, Hugh S. 3,186,200.
McAvoy, Thomas, and Dillon. 3,181,230.
McCartney, Kenneth C. 3,183,317.
McCarty, Orin P. 3,206,580.
McClure, John L. 3,165,598.
McCurdy, Dudley F. 3,223,205.
McGill, John C., Hoover, and Hefflin. 3,210,592.
McMullan, Stephen L. 3,205,031.
McMullen, Thomas B. 3,211,952.
McMullen, William. 3,176,150.
McMurray, William. 3,189,748.
McMurray, William. 3,207,974.
McQuade, James M. 3,169,236.
McQuade, James M. 3,208,922.
McQuarrie, Alexander M. 3,212,006.
Meiklejohn, William H. 3,188,579.
Meiklejohn, William H., and Skoda. 3,206,385.
Meinke, Hans H. 3,205,462.
Melcher, Conway H. 3,198,138.
Melvin, Charles A., Godbarsen, and Waggoner. 3,213,269.
Meng, John D. 3,177,418.
Meyer, Burtis W., and Geer. 3,178,587.
Meyer, Jerry A. 3,188,093.
Meyer, Jerry A. 3,190,659.
Meyer, Vincent E., and Eastman. 3,171,866.
Milford, Richard E. 3,164,771.
Miller, George M. 3,167,742.
Miller, George M. 3,192,504.
Miller, Merritt L. 3,226,641.
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Miller, William R. 3,183,386.
Mitchell, Edward E., and Perry. 3,189,826.
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Modic, Frank J. 3,205,283.
Mohler, Donald, and Tragert. 3,223,899.
Mohler, Donald, Westbrook, and Jenny. 3,182,235.
Moore, Fred W., and Pressley. 3,169,540.
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Moore, Harwood B. 3,194,566.
Moore, Warren F. 3,188,198.
More, Philip J. 3,222,478.
Morelock, Charles R. 3,188,182.
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Morey, Everett D. 3,187,137.
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Morgan, Raymond E. 3,164,767.
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Moyer, Wayne B. 3,199,836.
Moyson, Joseph. 3,196,330.
Mueller, Robert J. 3,215,835.
Myers, Richard T., and Buesing. 3,202,924.
Nalos, Ervin J. 3,164,742.
Namord, Mooshi R., and Havn. 3,177,395.
Nash, Dudley O., and Hagen. 3,192,712.
Navias, Louis. 3,173,779.
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Neitzel, Robert E. 3,176,169.
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Thompson, Paige W. 3,207,204.
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Gibbs, Earl C., Inc.: See—
Redford, Lloyd H., and Garcia. 3,168,937.
Gibbs, John R., to General Motors Corp. Multiple fluid spray gun with remotely operable selective valve control. 3,201,048, 8-17-65, Cl. 239-422.
Gibbs, Lawrence L., Sr. Vehicle transport car loading and unloading system. 3,215,090, 11-2-65, Cl. 104-27.
Gibbs Mfg. & Research Corp.: See—
Gibbs, Thomas B. 3,164,660.
Gibbs, Peter W., to Dominion Magnesium Ltd. Device for condensing metal vapours. 3,207,495, 9-21-65, Cl. 266-19.
Gibbs, Thomas B., to Gibbs Mfg. & Research Corp. Voltage regulator. 3,164,660, 1-5-65, Cl. 84-1.18.
Gibbs, William F., to Mack Trucks, Inc. Vehicular fire fighting equipment. 3,180,423, 4-27-65, Cl. 169-24.
Gibbs, William I.: See—
Howard, James E., and Gibbs. 3,186,261.
Gibby, William F., to Pangborn Corp. Dust filter with pressure jet cleaning. 3,178,868, 4-20-65, Cl. 55-96.
Giberson, John W., to E. I. du Pont de Nemours and Co. Process of polymerizing and foaming a lactam containing a novel cocatalyst. 3,206,418, 9-14-65, Cl. 260-2.5.
Giberson, John W., to E. I. du Pont de Nemours and Co. Anionic polymerization of lactams with 2,2,4,4-tetramethyl-1,3-cyclobutane dione as promoter. 3,207,729, 9-21-65, Cl. 260-78.
Giberson, John W., to E. I. du Pont de Nemours and Co. Polymerization of lactams with the β -lactone of 2,2,4-trimethyl-3-hydroxy-3-pentenol acid as activator. 3,214,415, 10-26-65, Cl. 260-78.
Gibney, Gerard G.: See—
Scarpa, Thomas J., Gibney, and B. P. Scarpa. 3,218,852.
Gibney, Gerard G., and B. Indeck, to Ethicon, Inc. Accelerator beam energy monitor. 3,179,804, 4-20-65, Cl. 250-83.3.
Gibson, Alan F., D. W. Goodwin, and R. H. Jones, to National Research Development Corp. Narrow band radiation detector using cyclotron resonance. 3,219,823, 11-23-65, Cl. 250-83.3.
Gibson, Calvin, and A. J. Allinot. Dumping hand cart. 3,178,228, 4-13-65, Cl. 298-2.
Gibson, Charles H., to Randac Systems, Inc. Control unit having removable and interchangeable programming inserts. 3,200,297, 2-10-65, Cl. 317-101.
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Gibson, David W., K. B. McGhee, and R. C. Stroup, to Union Carbide Corp. Graphite cloth laminates. 3,174,895, 3-23-65, Cl. 161-259.
Gibson, Donald L., to FMC Corp. Pin joint for links of endless tracks. 3,168,354, 2-2-65, Cl. 305-14.
Gibson, Doris S. Adjustable pillow-roll. 3,174,163, 3-23-65, Cl. 5-338.
Gibson, Earl D.: See—
Groff, William M., Gibson, and Powers. 3,204,029.

- Gibson, Earl D., to ACF Industries, Inc. Noise and distortion reduction in communication systems. 3,184,544, 5-18-65, Cl. 178-69.
Gibson, Francis E., and L. McDaniel, to Inland Steel Co. Vitreous enamel coatings. 3,169,310, 2-16-65, Cl. 29-527.
Gibson, Frederick M. Ski training device. 3,207,510, 9-21-65, Cl. 272-57.
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Gibson, George M. Apparatus to control the action of and to distribute washing fluid in a dishwashing machine. 3,176,697, 4-6-65, Cl. 134-183.
Gibson, George M. Method for washing articles. 3,177,095, 4-6-65, Cl. 134-25.
Gibson, Henry, to Kelton Corp. Ltd. Construction toy means for locking a horizontal I-beam between two detachably joined vertical column members. 3,168,793, 2-9-65, Cl. 46-28.
Gibson, Howard B., to The Thomas & Betts Co. Self-anchoring conduit strap. 3,218,013, 11-16-65, Cl. 248-78.
Gibson, Inc.: See—
McCarty, Theodore M. 3,204,975.
McCarty, Theodore M. 3,215,447.
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Gibson, James E., Jr., deceased, to Wachovia Bank & Trust Co., executor. Plastic tethered aerial top. 3,184,885, 5-25-65, Cl. 46-61.
Gibson, James L. Cushioning device for railroad car couplers. 3,170,575, 2-23-65, Cl. 213-43.
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Hoetscher, Frederick, Gibson, and Cross. 3,224,000.
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Gibson, Robert D. Urine collecting shield. 3,171,136, 3-2-65, Cl. 4-110.
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Broyles, Margaret H., and Gibson. 3,206,429.
Gibson, Roger E., and L. W. A. Meyer, to Eastman Kodak Co. Method of forming a sheet. 3,194,866, 7-13-65, Cl. 264-211.
Gibson, Rolla R., and C. M. Rohda, to Cart Cleaning Corp. of America. Trailer mounted cleaner. 3,179,117, 4-20-65, Cl. 134-107.
Gibson, Van R., Jr., and J. Kemeny, to General Electric Co. Push-button channel selector for a television receiver. 3,215,920, 11-2-65, Cl. 318-467.
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Gibson, William W., and F. T. Roach, to Glenn Pacific Corp. Adjustable single phase power supply for welding. 3,211,953, 10-12-65, Cl. 316-200.
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McCann, Walter L. 3,211,060.
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Giddings, Sydney A., to American Cyanamid Co. Organo-metallic polymeric condensation products and method of preparation. 3,226,363, 12-28-65, Cl. 260-47.
Giddings, Sydney A., to American Cyanamid Co. Process of preparing titanoxane polymers. 3,226,369, 12-28-65, Cl. 260-80.

- Gidlow, Rolf G., to The Pillsbury Co. Agglomerating apparatus. 3,220,054, 11-30-65, Cl. 18-1.
- Gidner, Robert R., to American Sterilizer Co. Apparatus for rinsing bed pans. 3,206,769, 9-21-65, Cl. 4-7.
- Gieb, Philipp, to Siemens & Halske Aktiengesellschaft. Membrane-type strain gauge. 3,213,400, 10-19-65, Cl. 338-4.
- Giebel, Buddy E., to Union Bag-Camp Paper Corp. Contents indicator for containers. 3,180,310, 4-27-65, Cl. 116-133.
- Giehart, Anton, to Sempert Österreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Firma. Tire for vehicles with profiled tire shoulders. 3,176,748, 4-6-65, Cl. 152-209.
- Giekens, Johannes W., and J. H. C. A. Gregoire, to Stamlicarbon N.V. Process for the preparation of metal salts of α -hydroxy- α -methyl mercapto butyric. 3,175,000, 3-23-65, Cl. 260-535.
- Giella, Mario: See—
- Cassidy, Paul C., and Giella. 3,220,962.
- Gielemann, James E. Roundabout amusement device. 3,197,203, 7-27-65, Cl. 272-33.
- Giepen, Hubert M., to General Vending Corp. Vending machine. 3,203,589, 8-31-65, Cl. 221-75.
- Gier, John R., Jr. Method of forming pin fin assemblies. 3,164,891, 1-12-65, Cl. 29-157.3.
- Gier, Joseph T., R. V. Dunkle, and R. D. Roddick, to The Regents of the University of California. Black body reflectometer. 3,216,310, 11-9-65, Cl. 88-14.
- Gier, Thurman E., to E. I. du Pont Nemours and Co. Fibrous sodium metal silicates. 3,201,196, 8-17-65, Cl. 23-110.
- Gierhart, Melvin O. Apparatus for applying sealing material. 3,183,803, 5-18-65, Cl. 94-44.
- Gierlach, Robert W.: See—
- Danielson, Vernon S., and Gierlach. 3,209,921.
- Gierlach, Robert W., to Standard Car Truck Co. Draft gear rigging for railroad car. 3,224,600, 12-21-65, Cl. 213-67.
- Gierse, Franz J.: See—
- Walbert, Wilhelm, Gierse, and Schäfer. 3,183,866.
- Gierzt-Hedstrom Stig, to Vibro-Verken Solna, Aktiebolaget. Rotary vibrator. 3,202,402, 8-24-65, Cl. 259-1.
- Gies, Helmut, and W. Happe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing or printing shaped structures of linear aromatic polyesters, especially polyethylene terephthalates. 3,186,767, 6-1-65, Cl. 8-41.
- Gies, Paul E.: See—
- Rumsey, Rollin D., and Gies. 3,179,020.
- Giese, Elroy J., to Tomlinson Industries, Inc. Machine and method for surface finishing objects. 3,203,139, 8-31-65, Cl. 51-140.
- Giese, Emil: See—
- Maurer, Albrecht, and Giese. 3,175,661.
- Gieseemann, Herbert. Spraying apparatus for the production of foamed plastic materials for use as fillers and insulations. 3,199,790, 8-10-65, Cl. 239-428.
- Giesen, Johann, and C. Berther, to Inventa A.G. fuer Forschung und Patentverwertung. Process for the manufacture of p-hydroxybenzoic acid. 3,187,037, 6-1-65, Cl. 260-521.
- Gieskieng, Marlon W. Railway wheel defect detector. 3,188,464, 6-8-65, Cl. 246-246.
- Giesler, Jerry B., to Waldorf Paper Products Co. Unitizing trays. 3,195,719, 7-20-65, Cl. 206-47.
- Giesler, Merle G., Sr. Vehicle trouble light. 3,175,079, 3-23-65, Cl. 240-8.18.
- Giesse, Robert C., and W. C. Smith, to Ametek, Inc. Liquid coalescing and separating apparatus. 3,165,470, 1-12-65, Cl. 210-307.
- Glesswein, Kurt: See—
- Ebert, Hans, Glesswein, Harmsen, and Vomberg. 3,196,930.
- Gietema, William A., 1/2 to R. E. Steblay. Prefocussing leader film for motion picture projection. 3,175,223, 3-23-65, Cl. 352-235.
- Giezendanner, Emil, and W. Mueller, to Buehler Gebrueder. Automatic transfer and cutting mechanism. 3,175,445, 3-30-65, Cl. 83-419.
- Giffen, James W., to Corning Glass Works. Valve means for selectively supplying a desired port with positive and negative pressures. 3,181,563, 5-4-65, Cl. 137-596.
- Giffen, James W., to Corning Glass Works. Glass forming and shearing. 3,193,367, 7-6-65, Cl. 65-70.
- Gifford, Edmund C.: See—
- Provost, Joseph R., Gifford, and Lazo. 3,196,551.
- Gifford, Theron C. Measuring dispenser. 3,193,033, 7-6-65, Cl. 177-135.
- Gifford, William E. Fluid control apparatus. 3,205,668, 9-14-65, Cl. 62-8.
- Gifford, William E., to International Business Machines Corp. Cryogenic regenerator. 3,216,484, 11-9-65, Cl. 165-4.
- Gift, Thomas H., to North American Aviation, Inc. Phase locking control device. 3,176,208, 3-30-65, Cl. 318-314.
- Gift, Harold C., and L. P. Procter, to Crompton & Knowles Corp. Process for producing level dyeings on polyamide fibers. 3,170,757, 2-23-65, Cl. 8-55.
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- Wilson, Howard W. 3,211,470.
- Giger, Adolf J., to Bell Telephone Laboratories, Inc. Transistor amplifier. 3,195,018, 7-13-65, Cl. 317-148.5.
- Giger, Adolf J., to Bell Telephone Laboratories, Inc. Plural channel switching system with impedance of on gate and off gates forming a bandpass filter. 3,201,716, 8-17-65, Cl. 333-3.
- Giger, Adolf J., to Bell Telephone Laboratories, Inc. High frequency channel switching unit employing electromechanical contact means. 3,202,941, 8-24-65, Cl. 333-7.
- Giger, Adolf J., to Bell Telephone Laboratories, Inc. Voltage regulator employing a voltage divider having an intermediate point at a reference potential. 3,217,237, 11-9-65, Cl. 323-22.
- Giger, Adolph J., to Bell Telephone Laboratories, Inc. Wide band current limiter. 3,196,359, 7-20-65, Cl. 323-168.
- Giger Jakob, to Landis & Gyr, A.G. Thermal relay having movable heat transfer device. 3,204,064, 8-31-65, Cl. 200-122.
- Gignoux, Dominique, to Cosmic, Inc. Oblique field electrostatic generator. 3,173,033, 3-9-65, Cl. 310-6.
- Gigon, Jean, and G. Maye, to Commissariat a l'Energie Atomique. Device for measuring doses of thermal neutrons. 3,225,196, 12-21-65, Cl. 250-83.1.
- Giguere, Paul T. Ice melter. 3,189,021, 6-15-65, Cl. 126-271.1.
- Gijzenberg, Joost. Seed bed harrow. 3,186,495, 6-1-65, Cl. 172-102.
- Gill, Artigas. Washing machine. 3,216,225, 11-9-65, Cl. 68-23.
- Gillard, Robert C.: See—
- Fritzsche, Peter R., and Gillard. 3,218,183.
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- Bissell, Richard M., and Gillb. 3,219,782.
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- Moore, Lawrence A., and Gilbank. 3,183,826.
- Gilbaugh, John W. Animal trap. 3,190,030, 6-22-65, Cl. 43-6.1.
- Gilbert, A. C. Co. The: See—
- Effinger, William L., Jr., and Struck. 3,222,816.
- Effinger, William L., Jr., Struck, and Gross. 3,204,368.
- Fitzpatrick, Homer J. 3,205,833.
- Frisbie, Marshall H., and Fitzpatrick. 3,204,574.
- Frisbie, Marshall H., and Kretzmer. 3,206,122.
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- Struck, Henry. 3,222,815.
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- Smith, Alexander E., III. 3,204,692.
- Socket, Paul J. 3,168,813.
- Strohmeyer, Charles, Jr. 3,172,266.
- Strohmeyer, Charles, Jr. 3,186,175.
- Strohmeyer, Charles, Jr. 3,199,494.
- Strohmeyer, Charles, Jr. 3,220,193.
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- Gilbert & Barker Mfg. Co. (Australia) Pty. Ltd.: See—
- Laver, Stanley V. 3,190,504.
- Gilbert, Carl S. Phonograph record storage apparatus. 3,207,318, 9-21-65, Cl. 211-40.
- Gilbert, Chalmers W., to Westinghouse Air Brake Co. Electrical control apparatus. 3,170,093, 2-16-65, Cl. 317-135.
- Gilbert, Daniel. Combination hanger hook and display plastic bags. 3,190,605, 6-22-65, Cl. 248-359.
- Gilbert, Elliott M.: See—
- Barringer, Jerry M., and Gilbert. 3,216,174.
- Gilbert, Elliott M., to General Electric Co. Regulated power supply. 3,197,691, 7-27-65, Cl. 321-18.
- Gilbert, Everett E., and A. W. Yodis, to Allied Chemical Corp. Stabilization of liquid sulfur trioxide. 3,188,176, 6-8-65, Cl. 23-174.
- Gilbert, Everett E., and C. N. Yiannios, to Allied Chemical Corp. Chlorofluorophenoxyalkanols and esters thereof. 3,188,338, 6-8-65, Cl. 260-458.
- Gilbert, Everett E., J. A. Otto, and J. J. Donleavy, to Allied Chemical Corp. Halo-substituted vinyl phosphate pesticides. 3,207,776, 9-21-65, Cl. 260-461.
- Gilbert, Everett E., and C. N. Yiannios, to Allied Chemical Corp. Chlorofluorophenoxy herbicidal composition and method. 3,223,516, 12-14-65, Cl. 71-2.3.
- Gilbert, Geoffrey, to Chavannes Industrial Synthetics, Inc. Method of making embossing apparatus. 3,205,112, 9-7-65, Cl. 156-252.
- Gilbert, George W., to United States of America, Navy. Weapon transfer dolly latch mechanism. 3,170,582, 2-23-65, Cl. 214-394.
- Gilbert, Gilbert C., and J. A. Wilcox, to Beloit Corp. Tool for a machining device. 3,218,895, 11-23-65, Cl. 63-5.
- Gilbert, Gordon L., to General Motors Corp. Refrigerating apparatus. 3,185,116, 5-25-65, Cl. 108-141.
- Gilbert, Harold L. Supporting hanger for glass conduit. 3,204,900, 9-7-65, Cl. 248-56.
- Gilbert, Herbert A. Smokeless non-tobacco cigarette. 3,200,819, 8-17-65, Cl. 128-208.
- Gilbert, Jack J., to Howe Sound Co. Separating apparatus. 3,220,550, 11-30-65, Cl. 209-120.
- Gilbert, James K. Animal traps. 3,174,250, 3-23-65, Cl. 43-61.
- Gilbert, John F. Temperature-compensated carburetor choke control. 3,174,687, 3-23-65, Cl. 236-91.
- Gilbert, Kendall E., to General Electric Co. High temperature gas turbine nozzle partition. 3,211,423, 10-12-65, Cl. 253-39.1.
- Gilbert, Leon M. Display device. 3,205,594, 9-14-65, Cl. 35-53.

- Gilbert, Lyman F., and J. R. McWhorter, to Bailey Meter Co. Ultra-violet radiation flame monitor. 3,185,846, 5-25-65, Cl. 250-83.6.
- Gilbert, Lynford W., to Hughes Aircraft Co. Machine tool with feed rate control. 3,191,205, 6-29-65, Cl. 10-139.
- Gilbert, Lynford W., and A. J. Budden, to Ex-Cello-O Corp. Shaft position transducer. 3,189,890, 6-15-65, Cl. 340-347.
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- Schick, Henry W., and Peterson. 3,206,712.
- Gilbert, Margaret A. Hand traveling case. 3,186,529, 6-1-65, Cl. 190-51.
- Gilbert, Maurice S.: See—
- Mantell, Stanley, and Gilbert. 3,192,080.
- Gilbert, Nathan, to United States of America, Navy. Amalgam mixing vessel for primary battery system. 3,182,984, 5-11-65, Cl. 268-34.
- Gilbert, Paul T., Jr., to Beckman Instruments, Inc. Method of operating a spectrochemical burner. 3,208,333, 9-28-65, Cl. 88-14.
- Gilbert, Peter D., to Pirelli General Cable Works Ltd. Dispenser for thermosetting resin impregnated tape. 3,203,544, 8-31-65, Cl. 206-47.
- Gilbert, Vernon J., to Link-Belt Co. Roll neck seal. 3,195,904, 7-20-65, Cl. 277-95.
- Gilbert, Walter W., to E. I. du Pont de Nemours and Co. Sharp transition exchange inversion composition and a method of making it. 3,196,055, 7-20-65, Cl. 148-121.
- Gilbert, Wayne A.: See—
- Case, Noel L., and Gilbert. 3,179,063.
- Gilbert, William C., to Lifetime Door Co. Solid core door. 3,168,763, 2-9-65, Cl. 20-35.
- Gilbert, William V. T. Gunstock with an arcuate arm engaging end portion. 3,209,481, 10-5-65, Cl. 42-71.
- Gilbertson, John E. Lock means. 3,175,853, 3-30-65, Cl. 292-86.
- Gilbertson, John E. Lawnmower device. 3,190,061, 6-22-65, Cl. 56-25.4.
- Gilbreath, Benjamin F., to Texas Instruments Inc. Series motor control. 3,195,029, 7-13-65, Cl. 318-246.
- Gilbride, Andrew J., and R. F. Gorini, to United Shoe Machinery Corp. Nail distributors. 3,207,362, 9-21-65, Cl. 221-63.
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- Gillis, Marvin B., and Gilchrist. 3,186,793.
- Woerther, Clarence J., and Gilchrist. 3,201,221.
- Gilchrist, Ralph E., to Phillips Petroleum Co. Recovery of oil. 3,191,675, 6-29-65, Cl. 166-9.
- Gilchrist, Ralph E., to Phillips Petroleum Co. In situ combustion initiation. 3,208,520, 9-28-65, Cl. 166-11.
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- Mattigling, Denis A. E., and Gilchrist. 3,174,206.
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- Gilder, John A., and R. S. Cole, to Electronic Specialty Co. Clutch with load limiting device. 3,203,523, 8-31-65, Cl. 192-56.
- Gile, Herman S., to United States of America, Atomic Energy Commission. Separation and recovery of uranium from uranium-aluminum alloys. 3,201,191, 8-17-65, Cl. 23-14.5.
- Giler, Roger R.: See—
- Adamson, Floyd E., and Giler. 3,188,375.
- Adamson, Floyd E., and Giler. 3,206,643.
- Giles, Aquila C., to Trans-Lux Corp. Data-reproducing apparatus for simultaneous display of separate and moving light images defining indicia derived from separate sources. 3,187,094, 6-1-65, Cl. 178-6.8.
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- Yellinek, Gustav H., and Giles. 3,197,029.
- Giles, James J.: See—
- Cooper, Thomas H., Hill, and Giles. 3,196,248.
- Giles, John E. Safety device for guns. 3,208,176, 9-28-65, Cl. 42-66.
- Giles, John E. Self-lubricating ammunition. 3,208,387, 9-28-65, Cl. 102-92.
- Giles, William H., to Nu Roll Corp. Splicing machines. 3,167,269, 1-26-65, Cl. 242-58.4.
- Gifford, Saul R.: See—
- Wood, Willis A., and Gifford. 3,224,321.
- Gilbert, James V., to United States of America, Navy. Valve operating means. 3,207,111, 9-21-65, Cl. 114-121.
- Gilinson, Philip J., Jr., to Massachusetts Institute of Technology. Supports for rotating or oscillating members. 3,184,271, 5-18-65, Cl. 308-10.
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- Gilkey, John W., and R. H. Krahnke, to Dow Corning Corp. Bis-silyl ureas and copolymers thereof. 3,208,971, 9-28-65, Cl. 260-46.5.
- Gilkey, John W., and R. H. Krahnke, to Dow Chemical Corp. Organosilicon cyclic urea derivatives and coatings thereof. 3,209,053, 9-28-65, Cl. 260-824.
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- Caldwell, John R., and Gilkey. 3,194,794.
- Gill, Edwin R., Jr., to K. W. Flocks. Wide angle high frequency reflecting device. 3,200,400, 8-10-65, Cl. 343-18.
- Gill, Edwin R., Jr., to K. W. Flocks. Low angle spraying machine. 3,202,359, 8-24-65, Cl. 239-1.
- Gill, Edwin R., Jr., to K. W. Flocks. Reflex light reflecting sheet. 3,215,039, 11-2-65, Cl. 88-78.
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- Gill, Harry A., to The Perkin-Elmer Corp. Chromatography column structure. 3,213,596, 10-26-65, Cl. 55-208.
- Gill, Henry J., to Defco, Inc. Safety belt for automobiles. 3,214,218, 10-26-65, Cl. 297-388.
- Gill, John B. Pipe pulling tool. 3,181,234, 5-4-65, Cl. 29-237.
- Gill, John B. Adjustable pipe machining tool. 3,202,190, 8-24-65, Cl. 144-205.
- Gill, John B. Pipe stabbing aid. 3,211,489, 10-12-65, Cl. 294-31.2.
- Gill, John B. Device for displacing couplings having a plurality of chain sections and anchor members with a thrust member to move a pipe. 3,213,529, 10-26-65, Cl. 29-237.
- Gill, John B. Internal pipe cutter. 3,216,295, 11-9-65, Cl. 82-82.
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- Giller, Arnold, to Chemische Werke Albert. Process for vulcanization of butyl rubber. 3,189,567, 6-15-65, Cl. 260-19.
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- Gillespie, Charles W., and R. L. Leonard, to General Motors Corp. Method of forming a heating unit. 3,196,525, 7-27-65, Cl. 20-155.65.
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- Gillespie, Merle H., Jr. Pneumatic means for feeding cementitious materials. 3,171,693, 3-2-65, Cl. 302-49.
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- Glasgow, Clarence O. Impact injection pump. 3,205,824, 9-14-65, Cl. 103-38.
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- Glasgow, Clarence O. Rotating electric sign device. 3,210,872, 10-12-65, Cl. 40-33.
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- Glass, Marvin I., and G. Licitis, to Marvin Glass & Associates. Bowling game having angularly retractable simulated pins. 3,171,655, 3-2-65, Cl. 273-41.

- Glass, Marvin I., and B. C. Meyer, said Meyer assor. to said Glass. Combined target and ball throwing toy. 3,172,665, 3-9-65, Cl. 273-102.1.
- Glass, Marvin I., and G. Licitis, said Licitis assor. to said Glass. Wheeled sounding toy. 3,182,421, 5-11-65, Cl. 46-17.
- Glass, Marvin I., D. E. Verbickas, and G. A. Barlow, to Marvin Glass & Associates. Toy washing machine. 3,187,459, 6-8-65, Cl. 46-14.
- Glass, Marvin I., and L. Kripak, to Marvin Glass & Associates. Animated toy figure. 3,195,270, 7-20-65, Cl. 46-232.
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- Glass, Marvin I., and B. C. Meyer, to Marvin Glass & Associates. Electrically powered and sounding toy bird. 3,200,538, 8-17-65, Cl. 46-232.
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Goldberg, Eugene P., to General Electric Co. Carbonate-polyester copolymer resinous compositions. 3,207,814, 9-21-65, Cl. 260-860.
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Goldberg, Eugene P., to General Electric Co. Process for the preparation of copolyesters comprising reacting a bis-haloformate of a dihydroxy compound with a difunctional carboxylic acid in a solution containing tertiary amine. 3,220,976, 11-30-65, Cl. 260-47.
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Goldberg, Harold, to Litton Systems, Inc. Continuous wave frequency modulation distance measuring apparatus. 3,214,756, 10-26-65, Cl. 343-14.
Goldberg, Ira, to East Coast Auto Specialties Co. Resilient covered bumper guard. 3,226,145, 12-28-65, Cl. 293-65.
Goldberg, Jacob, to Edgerton, Germeshausen & Grier, Inc. Electron stream deflection apparatus. 3,185,880, 5-25-65, Cl. 313-78.
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Goldberg, Nat D. Conveyor guide rail. 3,193,077, 7-6-65, Cl. 198-28.
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Golden, Harry, to Ideas for Auto & Bike Specialties, Inc. Velocipede handle bar accessory. 3,205,729, 9-14-65, Cl. 74-551.8.
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Goldfarb, Adolph E. Object propelling movable toy. 3,191,343, 6-29-65, Cl. 46-103.
Goldfarb, Adolph E. Inflatable aerial toy. 3,225,488, 12-28-65, Cl. 46-89.
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Goldfarb, Samuel, to General Precision Inc. Precision phase sensitive demodulator. 3,184,608, 5-18-65, Cl. 307-88.5.
Goldfarb, Samuel, and J. J. Biro, to General Precision, Inc. Shaft digital position encoder. 3,200,395, 8-10-65, Cl. 340-347.
Goldfeld, Solomon, to United States of America, Army. Process for shipping flexible polyurethane foam. 3,189,669, 6-15-65, Cl. 264-134.
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Albright, Jay D., and Goldman. 3,202,663.
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- Goldman, Leon S. Fermentation process for determining microbial sensitivity to antimicrobial agents. 3,216,907, 11-9-65, Cl. 195-103.5.
- Goldman, Richard G., to General Electric Co. Pulsed ultrasonic image converter. 3,213,675, 10-26-65, Cl. 73-67.5.
- Goldman, Richard G., and W. R. Marklein, to General Electric Co. Ultrasonic transmitting means and method of producing same. 3,189,767, 6-15-65, Cl. 310-8.2.
- Goldman, Robert H. Building unit with laterally related interfitted panel sections. 3,220,151, 11-30-65, Cl. 52-57.2.
- Goldman, Percy. Garment fastener. 3,214,813, 11-2-65, Cl. 24-137.
- Goldman, Robert N., and R. A. Katz, to Telecredit, Inc. Check authorization system. 3,212,082, 10-12-65, Cl. 340-172.5.
- Goldman, Sanford L. Loose leaf binder. 3,172,409, 3-9-65, Cl. 129-25.
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- Goldschmidt, Hans, and Sanford. 3,181,252.
- Goldschmidt, Hans, to H. Goldschmidt & Associates, Inc. Utility cart. 3,168,329, 2-2-65, Cl. 280-36.
- Goldschmidt, Hans, and A. B. Sanford, to H. Goldschmidt & Associates, Inc. Teaching device (tutor toy). 3,181,252, 5-4-65, Cl. 35-9.
- Goldschmidt, Herbert. Spill-proof container. 3,180,516, 4-27-65, Cl. 220-20.5.
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- Goldsholl, Morton, to Eureka Specialty Printing Co. Disposable stamp dispenser. 3,176,891, 4-6-65, Cl. 225-46.
- Goldsholl, Morton, to Vienna Sausage Mfg. Co. Display carton. 3,198,417, 8-3-65, Cl. 229-38.
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- Goldsmith, Bernard. Apparatus and method for marking spherical articles. 3,179,013, 4-20-65, Cl. 90-20.
- Goldsmith, Bernard M., to Nytronics, Inc. Transformer encased in magnetic tape. 3,171,091, 2-23-65, Cl. 336-83.
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- Goldsmith, Edward E., to General American Transportation Corp. Container stacking and covering devices. 3,173,574, 3-16-65, Cl. 220-97.
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- Goldstein, Alvin: See—
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- Goldstein, Arnold. Rotisserie construction. 3,194,150, 7-13-65, Cl. 99-421.
- Goldstein, Arnold. Folding barbecue construction. 3,200,806, 8-17-65, Cl. 126-25.
- Goldstein, Arthur, to Zwicker Knitting Mills. Knitted headwear. 3,169,252, 2-16-65, Cl. 2-203.
- Goldstein, Daniel, to Schenley Industries, Inc. Merchandising and shipping device. 3,167,179, 1-26-65, Cl. 206-44.
- Goldstein, Emanuel: See—
- Levy, Joseph, and Goldstein. 3,210,426.
- Goldstein, Eugene, and W. V. Matheny, to H. G. Enterprises. Urine drip absorbing apparatus. 3,212,501, 10-19-65, Cl. 128-295.
- Goldstein, Herman B., R. J. Peltier, and M. A. Silvestri, to Sun Chemical Corp. Textile finishing composition, application process and resulting product. 3,168,415, 2-2-65, Cl. 117-139.4.
- Goldstein, Jack M., and G. W. Lowy, to American Instrument Co., Inc. Parallelogram slit structure for a monochromator. 3,211,058, 10-12-65, Cl. 88-61.
- Goldstein, Maurice L. Timed plissetter motor control and indicator light therefor. 3,172,663, 3-9-65, Cl. 273-54.
- Goldstein, Melvin M., and H. C. Lieb, to United States of America, Army. Self charging nuclear battery. 3,200,269, 8-10-65, Cl. 310-3.
- Goldstein, Raymond, to Sperry Rand Corp. Relay control circuit. 3,170,095, 2-16-65, Cl. 317-155.5.
- Goldstein, Robert P., to Westinghouse Electric Corp. Position indicating arrangement. 3,183,496, 5-11-65, Cl. 340-196.
- Goldstein, Sol, to Harry J. Bosworth Co. Mouth protector device. 3,207,153, 9-21-65, Cl. 128-136.
- Goldstein, Walter. Glass aperture plate. 3,183,521, 5-11-65, Cl. 352-221.
- Goldstine, Herman H., L. P. Horwitz, and G. L. Shelton, Jr., to International Business Machines Corp. Specimen identification techniques employing Nth-order autocorrelation functions. 3,196,397, 7-20-65, Cl. 340-146.3.
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- Goldwasser, Edgar L. Coin display device. 3,178,014, 4-13-65, Cl. 206-83.
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- Hott, Ion V. K., and Goldzwig. 3,179,014.
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- Goldzwig, David M., and D. C. Duffy, to The Joyce-Cridland Co. Frame contact lift. 3,205,977, 9-14-65, Cl. 187-8.75.
- Goldenpaul, Charles, and M. De La Fuente, to Aerovox Corp. Packaging of tubular articles. 3,198,329, 8-3-65, Cl. 206-65.
- Golightly, James S., to Pittsburgh Plate Glass Co. Glass bending mold with a heat absorber. 3,202,497, 8-24-65, Cl. 65-288.
- Golightly, James S., to Pittsburgh Plate Glass Co. Glass bending. 3,216,811, 11-9-65, Cl. 65-107.
- Golightly, James S., to Pittsburgh Plate Glass Co. Bending mold for glass sheets. 3,220,821, 11-30-65, Cl. 65-291.
- Golightly, James S., and H. E. McKelvey, to Pittsburgh Plate Glass Co. Apparatus for bending glass sheets with heat absorbers. 3,202,496, 8-24-65, Cl. 65-288.
- Golightly, James S., H. Doehbert, and C. R. Davidson, Jr., to Pittsburgh Plate Glass Co. Method for bending glass sheets to compound curvatures. 3,223,505, 12-14-65, Cl. 65-107.
- Golk, Edwin R., to General Electric Co. Aural stereophonic balance indicator. 3,222,455, 12-7-65, Cl. 179-1.
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- Grimm, Wilhelm, and Gollasch. 3,193,749.
- Goller, August, to Karl Goller Maschinenfabrik KG. Telescope construction guiding means. 3,210,135, 10-5-65, Cl. 308-6.
- Goller, George N.: See—
- Clarke, William C., Jr., and Goller. 3,183,081.
- Goller, Karl, Maschinenfabrik KG.: See—
- Goller, August. 3,210,135.
- Goller, Paul. 3,191,902.
- Goller, Paul, to Karl Goller Maschinenfabrik KG. Telescope construction. 3,191,902, 6-29-65, Cl. 248-188.5.
- Goller, Waldo R., to United States of America, Atomic Energy Commission. Process for separation and recovery of volatile fluoride impurities from uranium hexafluoride containing the same. 3,165,376, 1-12-65, Cl. 23-14.5.
- Gollin, Ronald A., R. Michaels, D. Walker, and S. S. Adams, to Boots Pure Drug Co., Ltd. Process for the preparation of laminarin sulfate. 3,120,110, 8-10-65, Cl. 260-210.
- Gollins, Archie H., to The Firestone Tire & Rubber Co. Retractable sidewall-valve curing pin. 3,170,188, 2-23-65, Cl. 18-2.
- Gollis, Morton H.: See—
- Gilman, Lucius G., and Gollis. 3,211,703.
- Gilman, Lucius G., and Gollis. 3,211,704.
- Wineman, Robert J., Gollis, and James. 3,197,506.
- Gollis, Morton H., and L. G. Gilman, to Monsanto Research Corp. Polymeric polyisocyanurate laminating resin prepared from a diaryl diisocyanate and a cocatalyst system. 3,206,352, 9-14-65, Cl. 161-93.
- Gollnick, Cyril R., to Leach Co. Refuse collecting and transporting vehicle. 3,220,586, 11-30-65, Cl. 214-518.
- Gollwitzer, George E.: See—
- Sharpe, Frederick P., and Gollwitzer. 3,202,027.
- Gollwitzer, George E., to Kelsey-Hayes Co. Method of manufacturing brake drums. 3,216,105, 11-9-65, Cl. 29-527.
- Golodner, Marcos M., and G. E. Sabino, to Interchemical Corp. Method for producing novel leather substitutes. 3,169,885, 2-16-65, Cl. 117-135.5.
- Golomb, Dan S.: See—
- Rosenberg, Norman W., and Golomb. 3,212,441.
- Golosnec, Olga C., and E. S. Olney, to National Dairy Products Corp. Stabilized colored marshmallows. 3,220,853, 11-30-65, Cl. 99-134.
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- Golovanov, Victor G.: See—
- Novikov, Ivan N., Golovanov, Bepalov, Shilov, and Starostin. 3,164,263.
- Golten, Sigurd. Crankshaft main journal regrinding process. 3,165,860, 1-19-65, Cl. 51-289.
- Golthorpe, Harold C., to Aerojet-General Corp. Valve device. 3,214,132, 10-26-65, Cl. 251-173.
- Goltner, Wolfgang, and P. Schlack, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brünning. Process for the manufacture of copolymers of acrolein and acrylonitrile. 3,196,130, 7-20-65, Cl. 260-73.
- Goltz, Joseph, 25% to I. C. and G. I. Bloom, jointly. Stacking box construction. 3,182,856, 5-11-65, Cl. 220-97.
- Golub, Gerald: See—
- Strauss, Robert F., and Golub. 3,177,657.
- Golub, Leo, and M. Zaiger; said Golub assor. to said Zaiger. Wiper blade assembly. 3,208,091, 9-28-65, Cl. 15-250.36.

- Golueke, Clarence G., and W. J. Oswald, to The Regents of the University of California. Process for culturing and recovering algae and carageenin. 3,195,271, 7-20-65, Cl. 47-1.4.
- Goluska, Walter E.: See—
- Bodoh, Albinus G., and Goluska. 3,222,899.
- Gomarasca, Piero, and P. Blazina, to Laboratorio Farmaceutico Lofarma. Chlorine derivatives of cyclopentanophenanthrene and processes for their preparation. 3,201,427, 8-17-65, Cl. 260-397.4.
- Gombar, Steve, and C. G. Thayer, 33 1/4% to Gabriel L. Dery. Pitcher assembly for a liquid container. 3,184,110, 5-18-65, Cl. 222-86.
- Gombert, Dieter W., to Cook Electric Co. Atomic irradiator. 3,225,203, 12-21-65, Cl. 250-106.
- Gombos, Andrew M., to Blaw-Knox Co. Magnetic strip threader. 3,218,001, 11-16-65, Cl. 242-78.8.
- Gomersall, Florence J.: See—
- Gomersall, John R., Ireland and Willman. 3,170,674.
- Gomersall, John R., deceased, by F. J. Gomersall, executrix. M. Ireland, and P. E. Willman, to McGraw-Edison Co. Household mixer. 3,170,674, 2-23-65, Cl. 250-1.
- Gomes, Ronald J., to Sperry Rand Corp. Dual scale shaft angle indicator. 3,182,631, 5-11-65, Cl. 116-115.
- Gomez, Aldan D., to Straza Industries. Remotely controlled attenuator devices. 3,202,905, 8-24-65, Cl. 323-74.
- Gomez, Salvador B. Controlled action rotary servo-motor control mechanism. 3,205,984, 9-14-65, Cl. 192-96.
- Gomory, Margaret B.: See—
- Gomory, Paul L., M. B., N. A., and P. L. Gomory, Jr. 3,220,744.
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- Gomory, Paul L., M. B., N. A., and P. L. Gomory, Jr. 3,220,744.
- Gomory, Paul L., to Phillips Petroleum Co. Catalytic apparatus. 3,186,805, 6-1-65, Cl. 23-288.
- Gomory, Paul L., M. B., N. A., and P. L. Gomory, Jr. Rocking and rolling exerciser or toy. 3,220,744, 11-30-65, Cl. 280-111.
- Gomory, Paul L., Jr.: See—
- Gomory, Paul L., M. B., N. A., and P. L. Gomory, Jr. 3,220,744.
- Gomperts, Robert J., and L. M. Sprengers, to Automatic Electric Laboratories, Inc. Cross-oven reed relay. 3,218,406, 11-16-65, Cl. 200-87.
- Gonz, John H., to Edgerton, Germeshausen & Grier, Inc. Triggered spark gap. 3,207,947, 9-21-65, Cl. 315-109.
- Goncz, Jeno: See—
- Bartfal, Bela M., Goncz, Hajdu, Markovics, Ronai, and Szucs. 3,185,591.
- Gondek, John T., to Oil-Dyne. Hydraulic systems. 3,164,959, 1-12-65, Cl. 60-52.
- Gondert, Theodore R., and D. R. Snoeyenbos, to General Motors Corp. Clearance modulated frictionless attraction device for increasing the tractive engagement between vehicles and the supporting surface. 3,209,849, 10-5-65, Cl. 180-7.
- Gondra, Enrique G., A. S. Gutierrez, and P. W. J. McBride. Flexible container for liquid, pasty or granular products. 3,197,073, 7-27-65, Cl. 222-107.
- Gonek, Stanislaw M.: See—
- Alderman, Alfred, Gonek, and Rowlinson. 3,167,630.
- Gonek, Stanislaw M., and H. Rowlinson, to The English Electric Co. Ltd. Gas-blast electric circuit-breaker having contact fingers biased against auxiliary contact after disengagement from throat contact. 3,211,869, 10-12-65, Cl. 200-148.
- Gonella, Amedeo, and A. F. Landry, to Suburban Propane Gas Corp. Valve repair device. 3,194,256, 7-13-65, Cl. 137-315.
- Gongwer, Calvin A., to Aerojet-General Corp. Water-jet hydrofoil boat. 3,165,084, 1-12-65, Cl. 114-60.5.
- Gongwer, Calvin A., to Aerojet-General Corp. Leg connection. 3,204,262, 9-7-65, Cl. 9-301.
- Gongwer, Calvin A., to Aerojet-General Corp. Propeller. 3,204,699, 9-7-65, Cl. 170-135.
- Gongwer, Calvin A., to Aerojet-General Corp. Turbulence detector. 3,206,976, 9-21-65, Cl. 73-213.
- Gongwer, Calvin A., to Aerojet-General Corp. Water-jet propulsion device for boats. 3,212,258, 10-19-65, Cl. 60-35.54.
- Gongwer, Calvin A., to Aerojet-General Corp. Fluid turbulence detector. 3,218,682, 10-26-65, Cl. 73-170.
- Gonla, August T., H. H. Fante, and M. J. Shepard, to Rockwell-Standard Corp. Method for bending sinuous strips. 3,202,185, 8-24-65, Cl. 140-71.
- Gonsalves, Conrad J., to American Enka Corp. Treatment of multi-filament yarn. 3,167,847, 2-2-65, Cl. 28-1.
- Gonsalves, Conrad J., to American Enka Corp. Centrifugal yarn collection. 3,187,496, 6-8-65, Cl. 57-76.
- Gonsalves, John T. Method of purse seining. 3,175,319, 3-30-65, Cl. 43-4.5.
- Gonsalves, Victor E., and G. J. Hilderink, to American Enka Corp. Filament fault detector. 3,187,508, 6-8-65, Cl. 73-160.
- Gonski, Joseph: See—
- Newton, John S., Hlinsky, and Gonski. 3,208,797.
- Gonski, Joseph, to Goodman Mfg. Co. Laterally swingable conveyors for continuous mining machine. 3,190,697, 6-22-65, Cl. 299-04.
- Gonski, Joseph, and J. S. Newton, to Goodman Mfg. Co. Scroll type continuous mining machine. 3,194,603, 7-13-65, Cl. 299-64.
- Gonter, Edwin, Jr., and R. A. Elliott, to The Bendix Corp. Power steering means. 3,166,143, 1-19-65, Cl. 180-79.1.
- Gonyaw, Charles W.: See—
- De Priester, Coral L., Pantaleo, and Gonyaw. 3,204,696.
- Gonzales, Elwood J., C. M. Welch, and J. D. Guthrie, to United States of America, Agriculture. Process for making cellulosic textiles rot resistant with zirconium salts and phenols. 3,183,149, 5-11-65, Cl. 167-38.7.
- Gonzalez, Gilbert T.: See—
- Binzoni, Emilio M., Rosenthal, Gonzalez, Poland, and Cert. 3,173,684.
- Gonzalez, Ralph, Jr. Toy flask. 3,190,510, 6-22-65, Cl. 222-478.
- Gonzalez, Rodolfo, to Douglas Aircraft Co., Inc. Acoustical panel comprising a cellular core having a face thereof coated with fibers bridging the cells. 3,211,253, 10-12-65, Cl. 181-33.
- Gonzalez, Victor E. Ball socket attachment for impact tool. 3,172,675, 3-9-65, Cl. 279-2.
- Gooch, Frederic P., to Ametek, Inc. Centrifugal separator having a washing means. 3,182,802, 5-11-65, Cl. 210-212.
- Gooch, Frederic P., to Ametek, Inc. Horizontal type centrifugal separator. 3,187,997, 6-8-65, Cl. 233-7.
- Good, Arthur L., to Robertshaw Controls Co. Pressure differential switch with range balance adjustment. 3,200,215, 8-10-65, Cl. 200-83.
- Good, James A., and D. E. Thoren, to The Babcock & Wilcox Co. Resilient valve seat design. 3,193,250, 7-6-65, Cl. 251-363.
- Good, James L., to West Virginia Pulp and Paper Co. Control of machine components. 3,220,377, 11-30-65, Cl. 118-8.
- Good, Paul F., to Speedco, Inc. Travelling weight indicator. 3,198,271, 8-3-65, Cl. 177-45.
- Good, Paul F., to Westinghouse Electric Corp. Hardening and straightening method and apparatus for use with flanged axles. 3,210,223, 10-5-65, Cl. 148-131.
- Good, Raymond J. Cover assembly for an outlet box and supporting wall mat therefor. 3,197,549, 7-27-65, Cl. 174-66.
- Good Roads Machinery Corp.: See—
- Helzroth, William H., and Hank. 3,217,431.
- Ozell, Robert J. 3,208,359.
- Good, Wayne W., to Harter Corp. Drop-in table for modular furniture. 3,199,470, 8-10-65, Cl. 108-64.
- Good, William R., and B. Davies, to Harbison-Walker Refractories Co. Volume stable refractory and method of making same. 3,192,059, 6-29-65, Cl. 106-57.
- Gooders, Cecil: See—
- Dolphin, John R. V., and Goodacre. 3,202,233.
- Goodacre, Cecil, and J. R. V. Dolphin, to Lansing Bagnall Ltd. Industrial trucks. 3,181,640, 5-4-65, Cl. 180-19.
- Goodale, Darrell E., to Ever-Tite Mfg. Co. Trestle. 3,178,146, 4-13-65, Cl. 248-352.
- Goodale, Edmund E.: See—
- Dewes, Roger A., and Goodale. 3,198,945.
- Goodale, Edmund E., R. S. Rochlin, and V. V. Verbinski, to General Electric Co. Device for measuring biological effect of radiation. 3,221,165, 11-30-65, Cl. 250-83.6.
- Goodale, Walter D., Jr.: See—
- Clemency, William F., and Goodale. 3,171,901.
- Goodale, Walter D., Jr., and W. P. Pford, to Bell Telephone Laboratories, Inc. Telephone pay station. 3,169,167, 2-9-65, Cl. 179-63.
- Goodall, Donald G., N. G. Hutton, and N. Roberts, to Rolls-Royce Ltd. Internal shock wave positioning control system for air intakes for supersonic aircraft. 3,163,981, 1-5-65, Cl. 60-35.6.
- Goodall, Reginald A. Toothbrush container. 3,207,296, 9-21-65, Cl. 206-15.1.
- Goodbar, Isaac. Lighting fixture. 3,169,709, 2-16-65, Cl. 240-25.
- Goodchild, George A. Joined screen sections. 3,213,586, 10-26-65, Cl. 52-581.
- Goode, Archie E., and T. G. Hill, to Lockheed Aircraft Corp. Aircraft heating system. 3,203,473, 8-31-65, Cl. 165-35.
- Goode, McKay, and M. J. Wiggins, to Martin-Marietta Corp. Tropospheric scatter communication system having high diversity gain. 3,226,644, 12-28-65, Cl. 325-56.
- Goode, Robert W., 1/2 to G. A. Petersen, and 1/2 to A. E. Petersen. Winding device for twisted cable. 3,211,394, 10-12-65, Cl. 242-82.
- Goodell, John D., to Minnesota Mining and Mfg. Co. Tape cartridge interlock. 3,188,091, 6-8-65, Cl. 274-11.
- Goodell, John D., J. Nazali, and T. N. Tengsater, to U.S. Industries, Inc. Article manipulator apparatus. 3,182,813, 5-11-65, Cl. 214-1.
- Goodell, John L. Automobile top carrier and cases therefor. 3,209,971, 10-5-65, Cl. 224-42.1.
- Goodell, Richard H., to Ethyl Corp. Container tie down and shipping device. 3,217,892, 11-16-65, Cl. 211-71.
- Goodenough, Robert D., to The Dow Chemical Co. Lithium fluoride production. 3,179,495, 4-20-65, Cl. 23-88.
- Goodenough, Robert D., and R. H. Cooper, to The Dow Chemical Co. Recovery of potassium chloride from aqueous solutions. 3,212,863, 10-19-65, Cl. 23-300.

- Goodfellow, David S., and A. J. Terry, to Brown & Williamson Tobacco Corp. Mouthpieces for cigarettes. 3,205,791, 9-14-65, Cl. 93-1.
- Goodfriend, David J., to Prosthetics Research Inc. Method of reproducing dental relationships on an articulator. 3,200,497, 8-17-65, Cl. 32-32.
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- Goodhue, Lyle D., R. P. Louthan, and K. E. Cantrel, to Phillips Petroleum Co. Method of combatting insects with polysulfides. 3,185,620, 5-25-65, Cl. 167-22.
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- Goodin, Robert D. Electronic circuit board. 3,185,897, 5-25-65, Cl. 317-101.
- Gooding, Willard H., to Western Velo & Cement Specialties Co. Hopper structure. 3,168,945, 2-9-65, Cl. 193-4.
- Gooding, Willard H., to Western Velo & Cement Specialties Co. Discharge chute. 3,173,459, 3-16-65, Cl. 141-285.
- Gooding, Willard H., to Western Velo & Cement Specialties Co. Gate structure. 3,178,009, 4-13-65, Cl. 198-64.
- Goodloe, Alfred M., to General Cable Corp. Heat exchangers. 3,195,627, 7-20-65, Cl. 165-181.
- Goodloe, Alfred M. Expanded metal RF radiation shielding gasket. 3,206,536, 9-14-65, Cl. 174-35.
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- Goodman, Abraham, to Delamere Co., Inc. Flexible comb with integral latch for securing a pony tail or similar hairdo. 3,209,768, 10-5-65, Cl. 132-46.
- Goodman, Abraham M. Elastic traction device and scale therefor. 3,221,735, 12-7-65, Cl. 128-75.
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- Goodman, Carol C., and V. A. Ross, to Chicago Display Co. Display. 3,220,129, 11-30-65, Cl. 40-128.
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- Goodman, Howard. Lamp harp assembly. 3,166,254, 1-19-65, Cl. 240-81.
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- Bowman, Arvid N. 3,226,043.
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- Hagenbook, Loy D. 3,191,763.
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- Herzog, George L. 3,191,760.
- Hilinsky, Emil J. 3,170,732.
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- Kennedy, Verne C. 3,196,966.
- Knapp, Walter C., and Lo Presti. 3,211,277.
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- Lo Presti, Roy F., and Salmons. 3,225,899.
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- Moeller, Ronald P. 3,219,065.
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- Goodman Mfg. Co.: See—Continued
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- Stalker, Kenneth W. 3,217,554.
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- Stinson, Mary L. 3,200,938.
- Ward, Donald A. 3,190,699.
- Wurzberg, Warren F., and Reid. 3,181,799.
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- Goodman, Norman H., to Vanmark Research Corp. Elastic mesh ballet tights. 3,212,103, 10-19-65, Cl. 2-224.
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- Goodman, Robert J., to Sekur-All Corp. Skate with spring loaded coupling mechanism. 3,202,434, 8-24-65, Cl. 280-11.26.
- Goodman, Robert J., to Sekur-All Corp. Molded plastic skates. 3,202,435, 8-24-65, Cl. 280-11.26.
- Goodman, Robert M. Electro-optical device for producing a modulated voltage. 3,192,387, 6-29-65, Cl. 250-217.
- Goodman, Robert M., Jr., to United States of America, Army. Antenna feed waveguide system providing rapid switching between scan and tracking modes of operation. 3,213,455, 10-19-65, Cl. 343-754.
- Goodman, Robert M. Miniature shock-resistant photocell. 3,215,850, 11-2-65, Cl. 250-239.
- Goodman, Robert M. Photosensitive scanner for detecting radiation from any azimuthal angle. 3,226,557, 12-28-65, Cl. 250-236.
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- Goodman, Thomas P., to General Electric Co. Force cancelling bearing pedestals using reciprocating masses. 3,172,630, 3-9-65, Cl. 248-20.
- Goodman, Thomas P., to General Electric Co. Vibration vector measurement and display apparatus. 3,220,247, 11-30-65, Cl. 73-67.
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- Goodman, William. Control for vapor flow valve. 3,186,641, 6-1-65, Cl. 236-40.
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- Goodnight, Hershel: See—
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- Goodrich, B. F., Co., The: See—
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- Goodrum, Richard B., to Cushman Industries, Inc. Lathe chuck. 3,198,533, 8-3-65, Cl. 279-121.
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- Goodsell, John M., to Micro-Precision Co. Interchangeable re-loading dies. 3,175,456, 3-30-65, Cl. 86-23.
- Goodson, Charles R. Pouring spout for bottle. 3,217,950, 11-16-65, Cl. 222-484.
- Goodstein, Sanders A. Chip cleaning method. 3,163,929, 1-5-65, Cl. 29-403.
- Goodwill, Maurice W., and L. W. Haug. Modular frameless roof construction. 3,173,225, 3-16-65, Cl. 50-61.
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- Goodwin, Edwin C., Jr., to Allis-Chalmers Mfg. Co. Operating mechanism for circuit breakers. 3,207,879, 9-21-65, Cl. 200-153.
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- Goonan, Harry J., and J. K. Fitzpatrick, to The Western Union Telegraph Co. Waveguide flanging system. 3,194,467, 7-13-65, Cl. 228-50.
- Goonewardene, Hilary F., to Rohm & Haas Pharma G.m.b.H. Method and compositions for chemosterilization of insects. 3,226,289, 12-28-65, Cl. 167-22.
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- Goor, Dan, to General Electric Co. Undesired signal canceller. 3,213,450, 10-19-65, Cl. 343-17.1.
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- Goostree, Jack E. Standing valve assembly for downhole plunger pumps and attachment therefor. 3,215,085, 11-2-65, Cl. 103-179.
- Gootee, Gerald J.: See—
- Flaherty, William J., and Gootee. 3,216,132.
- Gootherts, Jerome W., to American Radiator & Standard Sanitary Corp. Scanning bimorph transducer. 3,166,683, 1-19-65, Cl. 310-8.6.
- Gootherts, Jerome W., to American Radiator & Standard Sanitary Corp. Electromagnetic position indicator utilizing plural eccentrically pivoted coils. 3,200,333, 8-10-65, Cl. 324-150.
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- Goppert, John E., Jet Sew, Inc. Carpet binding sewing machine. 3,176,638, 4-6-65, Cl. 112-9.

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- Gorbar, Nettie. Regulating clamp for flexible tubes. 3,215,395, 11-2-65, Cl. 251-6.
- Gorbaty, Arthur M., to Bell Aerospace Corp. Space vehicle control system. 3,190,069, 6-22-65, Cl. 60-35.6.
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- Gorceya, Edward R., to American Brake Shoe Co. Two-piece dust guard. 3,207,522, 9-21-65, Cl. 277-130.
- Gordan, Andrew L., to Curtis-Wright Corp. Quick disconnect, hose couplings having identical mating parts. 3,193,311, 7-6-65, Cl. 285-70.
- Gordanier, Earl: See—
Orgo, Robert L. 3,215,022.
- Gordip, John T.: See—
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- Gordon, Augustus S. Acrobatic animal. 3,199,247, 8-10-65, Cl. 46-133.
- Gordon, Barnett D., E. der Estephanian, and E. J. Boutillette, to M.K.M. Knitting Mills, Inc. Rear panel for women's knitted garments and method of knitting same. 3,176,480, 4-6-65, Cl. 66-189.
- Gordon, Benjamin Z.: See—
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- Gordon, Bernhard H., to Storack Corp. Interlocking structural members. 3,203,778, 9-28-65, Cl. 287-54.
- Gordon, Bernhard H. Key clamp with lock pin. 3,219,157, 11-23-65, Cl. 189-36.
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- Gordon, Chester D.: See—
Andrewsen, Harry W., and Gordon. 3,202,679.
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Stack, Vernon T. 3,197,977.
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- Gordon, Donald B.: See—
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- Gordon, Donald W. Cushion apparatus for landing pits for jumpers, vaulters, divers, etc. 3,204,259, 9-7-65, Cl. 5-355.
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- Gordon, Fred M., to American Cyanamid Co. Controlling nematodes in soil with nematocidal benzo[b]thiophenes. 3,218,229, 11-16-65, Cl. 167-33.
- Gordon, George B. Fibrous web feeding and flow rate decelerating method and apparatus. 3,192,572, 7-6-65, Cl. 19-161.
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- Gordon, Harold. Regenerative air heating system. 3,198,190, 8-3-65, Cl. 126-101.
- Gordon, Irving, and J. H. Brown, to Hooker Chemical Corp. Phosphorus polymers. 3,221,057, 11-30-65, Cl. 260-606.5.
- Gordon, James. Electrical brush holder. 3,171,050, 2-23-65, Cl. 310-239.
- Gordon, John E., to Joy Mfg. Co. Drill assembly. 3,164,962, 1-12-65, Cl. 60-64.
- Gordon, Joseph, and C. Woolf, to Allied Chemical Corp. Manufacture of halogenated alcohols. 3,189,656, 6-15-65, Cl. 260-633.
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- Gordon, Mack. Adjustable vacuum valve. 3,167,089, 1-26-65, Cl. 137-517.
- Gordon, Millard F., to Thompson Ramo Wooldridge Inc. Rotary distributor having waveguide coupling across rotor-stator gap. 3,165,712, 1-12-65, Cl. 333-7.
- Gordon, Millard F., to TRW Inc. Variable delay line using electromagnetic energy coupling. 3,212,030, 10-12-65, Cl. 333-31.
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- Gordon, Moses, E. P. Goodman, and G. E. Thompson, to Standard Oil Co. Acid treating of hydrocarbons. 3,177,137, 4-6-65, Cl. 208-267.
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- Gordon, Roman M.: See—
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- Gordon, Sheritt, Mines Ltd.: See—
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- Gordon, Stuart, K. G. Reed, and J. C. N. Russell, to Imperial Chemical Industries Ltd. Process for making propellant charges. 3,202,730, 8-24-65, Cl. 264-3.
- Gordon, Walter H., Jr., to General Electric Co. Thermal-electric control device having thermally expansive material as a switch actuator. 3,204,066, 8-31-65, Cl. 200-140.
- Gordon, Walter H., Jr., to General Electric Co. Electrically heated bedcover. 3,222,497, 12-7-65, Cl. 210-212.
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- Goreham, Peter E., to Moore Business Forms, Inc. Aperture sensing mechanisms. 3,201,019, 8-17-65, Cl. 226-9.
- Gorelov, Leonid R., and M. A. Shimanko, to Moscovsky Zavol Maolilrazliynykh Artomobilei. Clutch bearing adjusting device. 3,213,990, 10-26-65, Cl. 192-110.

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- Goren, Mayer B.: See—
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- Gores, Kenneth W., and P. D. Kennar. Mouthguard. 3,223,085, 12-14-65, Cl. 128-136.
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- Gorin, Alex M. Speed reduction drive mechanism. 3,190,149, 6-22-65, Cl. 74-505.
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- Gorham, Harold F. Fish line guide. 3,222,812, 12-14-65, Cl. 43-24.
- Gorham, William F., to Union Carbide Corp. Halogenated di-p-xylenes. 3,221,068, 11-30-65, Cl. 260-649.
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- Görig, Josef. Method of producing printing forms for intaglio printing. 3,210,188, 10-5-65, Cl. 96-38.
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- Gorjanc, Henry A., to The Cleveland Crane & Engineering Co. Carrier systems. 3,200,768, 8-17-65, Cl. 104-88.
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- Gorman, Marvin, to Eli Lilly and Co. Quebrachidine and derivatives. 3,225,053, 12-21-65, Cl. 260-294.3.
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- Gorman, William S., Jr., to Hallmark Cards, Inc. Transparent candle. 3,194,031, 7-13-65, Cl. 67-22.
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- Gorske, Edmund J., Jr., and C. C. Patton, Sangamo Electric Co. Reel mounting. 3,198,454, 8-3-65, Cl. 242-68.3.
- Gorskhoff, Alexis S., to The Snow-Nabstedt Gear Corp. Reversible transmission mechanism. 3,215,003, 11-2-65, Cl. 74-760.
- Gorske, Herman A., and L. V. McCarty, to Controls Co. of America. Ignition device. 3,185,896, 5-25-65, Cl. 317-88.
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- Goss, Samuel G., III, to Halsam Products Co. Building blocks connectable in slideable or non-slideable relationship. 3,220,141, 11-30-65, Cl. 46-25.
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- Greby, Daniel F., to Textron Inc. Antifriction screw and nut assembly. 3,192,791, 7-6-65, Cl. 74-424.8.
- Greby, Daniel F., to Textron Inc. Roller bearing assembly. 3,205,029, 9-7-65, Cl. 308-217.
- Greck, Alois: See—
Grandi, Gianfranco, Greck, and Sterk. 3,208,128.
- Greco, Carl C., to Stauffer Chemical Co. Heterocyclic organotin compounds. 3,201,408, 8-17-65, Cl. 260-299.
- Greco, Frank, to Singer Co. of Canada Ltd. Thread cut-off device. 3,186,367, 6-1-65, Cl. 112-252.
- Greco, Guido, to Montecatini, Societa Generale pour l'Industria Mineraria e Chimica. Gas mixer apparatus. 3,194,264, 7-13-65, Cl. 137-656.
- Greco, Nicholas P., to Koppers Co., Inc. Norcamphoric acid manufacture. 3,206,503, 9-14-65, Cl. 260-514.
- Greco, Peter F., and H. Piorunneck, to Burndy Corp. Printed circuit board connector. 3,176,261, 3-30-65, Cl. 339-176.
- Greco, Ralph to Formflex Foundations, Inc. Foundation garment. 3,213,855, 10-26-65, Cl. 128-528.
- Greczin, John, to The Singer Co. Method and apparatus for reinforcing flexible hose. 3,201,954, 8-24-65, Cl. 66-9.
- Greding, Robert, to Dominion Engineering Works, Ltd. Winders and rewinders for paper machines. 3,178,125, 4-13-65, Cl. 242-66.
- Gredy, Laurent: See—
Hendershot, Charles E. 3,177,855.
- Greer, George R.: See—
Devaney, Richard G., Greer, and Tamblyn. 3,194,782.
- Greear, George R., and J. W. Tamblyn, to Eastman Kodak Co. Printable polyethylene containing oxidized thermally degraded polyethylene. 3,222,431, 12-7-65, Cl. 260-897.
- Green Ltd.: See—
Welland, John E. T. 3,201,037.
- Greek, Eldon V. Bathroom fixture. 3,200,544, 8-17-65, Cl. 52-27.
- Greeley, Edward M., and R. N. Stenerson, to Carrier Corp. Corrosion inhibition. 3,200,604, 8-17-65, Cl. 62-85.
- Green, A. P. Fire Brick Co.: See—
Crookston, James A., Boyer, and Hodges. 3,187,694.
Crookston, James A., Boyer, and Hodges. 3,208,412.
- Green, Alvin C., to General Electric Co. High-pressure metal vapor discharge lamp. 3,226,597, 12-28-65, Cl. 315-60.
- Green, Andrew T.: See—
Rich, Howard B., and Green. 3,209,799.
- Green, Arpad: See—
Arcamone, Federico, di Marco, Ghione, Pennella, and Green. 3,170,837.
- Green, Bernard J., and M. J. Shipping and dispensing carton. 3,217,873, 11-16-65, Cl. 206-65.
- Green, Brian N.: See—
Craig, Robert D., and Green. 3,226,542.
- Green, Brian N., to Associated Electrical Industries Ltd. Mass spectrometer ion collector with a secondary particle collecting electrode extending over the collector. 3,192,383, 6-20-65, Cl. 250-41.9.
- Green, Calvin, and J. D. Walk, to Owens-Illinois Glass Co. Apparatus for forming molten glass in cylindrical form. 3,194,645, 7-13-65, Cl. 65-167.
- Green, Charles E. Mosaic construction for electroacoustical cylindrical transducers. 3,177,382, 4-6-65, Cl. 310-8.7.
- Green, Charles E., to United States of America, Navy. Interleaved electroacoustical transducer. 3,182,284, 5-4-65, Cl. 340-10.
- Green, Charles P., to E. I. du Pont de Nemours and Co. Process for improving the properties of a compacted form of sodium cyanide crystals. 3,206,278, 9-14-65, Cl. 23-79.
- Green, Daniel A., to Mine Safety Appliances Co. Power circuit control device. 3,192,451, 6-29-65, Cl. 317-157.
- Green, David S., to Standard Pressed Steel Co. Squareness gauge. 3,199,204, 8-10-65, Cl. 33-174.
- Green, Derek, to United Kingdom Atomic Energy Authority. Forming of materials by extrusion. 3,203,217, 8-31-65, Cl. 72-265.
- Green, Duane L., to E. I. du Pont de Nemours and Co. Process for dyeing polypropylene filaments containing inorganic alkaline earth metal compounds with 1-aminoanthraquinone dyes and the product obtained thereby. 3,198,596, 8-3-65, Cl. 8-39.
- Green, E., & Son Ltd.: See—
Parris, Cyril W. 3,189,087.
- Green, Edward: See—
Smith, Frederick J., and Green. 3,215,233.
- Green, Edward H. Atomizer head for use with low-expansion gaseous propellants. 3,174,692, 3-23-65, Cl. 239-337.
- Green, Edward H. Variable spray control for an aerosol dispenser. 3,188,008, 6-8-65, Cl. 239-337.
- Green, Edward H. Variable spray rate aerosol valve. 3,206,082, 9-14-65, Cl. 222-394.
- Green, Edward H. Pressurized package with variable spray rate and means to prevent relative rotation. 3,209,960, 10-5-65, Cl. 222-394.
- Green, Edward H. Indicating plate for spray canisters. 3,212,718, 10-19-65, Cl. 239-394.
- Green, Eric, to National Research Council. Weighing scale for unstable mounting. 3,174,567, 3-23-65, Cl. 177-219.
- Green, Evert S. Plant container. 3,193,970, 7-13-65, Cl. 47-38.1.
- Green, Evert S. Planter. 3,220,144, 11-30-65, Cl. 47-38.1.
- Green, Farno L., to General Motors Corp. Shutter controlled radiographic exposure unit. 3,177,364, 4-6-65, Cl. 250-105.
- Green, Frank T., and W. I. Smith, to Noble Mfg. Co., Inc. Automatic shotgun. 3,171,225, 3-2-65, Cl. 42-17.
- Green, Gene L.: See—
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- Green, Geoffrey D., to Western Electric Co., Inc. Spring connector for making electrical connection to a circuit member. 3,185,805, 5-25-65, Cl. 200-166.
- Green, Geoffrey D., and H. F. Runge, to Western Electric Co., Inc. Apparatus for indexing work parts. 3,164,028, 1-5-65, Cl. 74-365.

- Green, George A. and R. H. Rechargeable gas candle. 3,165,909, 1-19-65, Cl. 67-87.
- Green, Graydon D., to Rockwell Mfg. Co. Meter index compensator. 3,216,253, 11-9-65, Cl. 73-233.
- Green, Harold A., to Air Products and Chemicals, Inc. Synthetic polymeric hydrocarbon compositions stabilized with an arylmethylether ether of dialkylphenol compound. 3,193,526, 7-6-65, Cl. 260-45.95.
- Green, Harold A., to Air Products and Chemicals, Inc. Ultra-violet absorbers. 3,205,083, 9-7-65, Cl. 106-176.
- Green, Harold D., to United States Steel Corp. Mold coating and method of pouring ingots. 3,212,145, 10-19-65, Cl. 22-192.
- Green, Harold H., and R. R. Lee, to Dunlop Rubber Co. Ltd. Apparatus for the fluidizing heat treatment of sheet material. 3,174,230, 3-23-65, Cl. 34-95.
- Green, Homer T., and R. A. Lawton, to The Parker Pen Co. Fountain pen. 3,185,135, 5-25-65, Cl. 120-50.
- Green, Hugh M.: See—
- Green, William P., R. M. and H. M. 3,190,032.
- Green, James B. Utility belt. 3,212,690, 10-19-65, Cl. 224-26.
- Green, James C.: See—
- Frenzel, Carl J., and Green. 3,208,638.
- Green, James W. Ornamental watch, portrait and plaque stand. 3,191,901, 6-29-65, Cl. 248-116.
- Green, Joe T., to United States of America, Atomic Energy Commission. Leak valve. 3,222,026, 12-7-65, Cl. 251-5.
- Green, John I. T., to The British Iron and Steel Research Assn. Positioning systems. 3,170,341, 2-23-65, Cl. 74-822.
- Green, John M.: See—
- Arp, Leon J., and Green. 3,202,893.
- Arp, Leon J., and Green. 3,202,895.
- Green, Joseph: See—
- Cohen, Murray S., Green, Karlan, and Mayes. 3,183,216.
- Green, Joseph. Game bat with swing-responsive sounding means. 3,173,688, 3-16-65, Cl. 273-72.
- Green, Joseph, to Miner Industries, Inc. Device for making noise by the puncturing of inflated balloons. 3,204,369, 9-7-65, Cl. 46-88.
- Green, Joseph, and B. Groten, to Thiokol Chemical Corp. Reaction products of decaborane with alkenyl pyridine. 3,190,863, 6-22-65, Cl. 260-88.3.
- Green, Joseph, and B. Groten, to Thiokol Chemical Corp. Process for reacting lower alkyl decaborane with alkyl diamines and products thereof. 3,203,995, 8-31-65, Cl. 260-533.
- Green, Joseph, M. M. Fein, and M. Israel, to Thiokol Chemical Corp. Reaction product of a rubber and a poly nitrile decaborane. 3,201,377, 8-17-65, Cl. 260-85.3.
- Green, Joseph, B. Groten, and M. M. Fein, to Thiokol Chemical Corp. Decaborane-olefinic amine reaction products. 3,214,466, 10-26-65, Cl. 260-551.
- Green, Joseph G.: See—
- Dean, George A., Green, and Henderson. 3,193,700.
- Green, Kelvin D., to Parker-Hannifin Corp. Tube coupling. 3,216,747, 11-9-65, Cl. 285-110.
- Green, Leon, Jr. Means and method of utilizing solar energy. 3,203,167, 8-31-65, Cl. 60-26.
- Green, Louis E., Jr., and J. C. Winters, to Standard Oil Co. Analysis by gas chromatography and apparatus therefor. 3,169,389, 2-16-65, Cl. 73-23.1.
- Green, Louis H. Truck-mounted spraying mechanism. 3,219,275, 11-23-65, Cl. 239-172.
- Green, Lowell J., to North Electric Co. Current supply apparatus. 3,200,328, 8-10-65, Cl. 323-89.
- Green, Marshall S.: See—
- Baxter, Joseph, Jr., Corbin, Green, Martin, and Rojecki. 3,215,594.
- Green, Marshall S., to The Black-Clawson Co. Headbox for twin wire paper making apparatus. 3,215,593, 11-2-65, Cl. 162-301.
- Green, Martin, 1/2 to J. Cornella, Jr. Work bench scaffold and lift combination. 3,225,864, 12-28-65, Cl. 182-144.
- Green, Marvin T., to Chicago Show Printing Co. Animated display. 3,174,243, 3-23-65, Cl. 40-139.
- Green, Mavis J., to H. E. Bovay, Jr., Consulting Engineers. Automatic apparatus for sawing logs to desired lengths. 3,186,453, 6-1-65, Cl. 143-47.
- Green, Melvin E., and C. H. Derrickson, to American Screen Process Equipment Co. Printing and drying apparatus. 3,182,589, 5-11-65, Cl. 101-40.
- Green, Milton: See—
- Blout, Elkan R., Cohler, Green, and Woodward. 3,209,016.
- Blout, Elkan R., Green, Rogers, and Simon. 3,208,991.
- Green, Milton, to Polaroid Corp. Reductive amination of ketones. 3,187,047, 6-1-65, Cl. 260-570.8.
- Green, Milton, to Polaroid Corp. Hydroquinone diacetamide azo compounds. 3,201,384, 8-17-65, Cl. 260-160.
- Green, Milton, to Polaroid Corp. Hydroquinonylsulfonyl azo dye developers. 3,218,312, 11-16-65, Cl. 260-162.
- Green, Milton, and H. G. Rogers, to Polaroid Corp. Color diffusion transfer process, element and composition therefor. 3,173,786, 3-16-65, Cl. 96-3.
- Green, Milton, and H. G. Rogers, to Polaroid Corp. Azo dyes. 3,173,906, 3-16-65, Cl. 260-162.
- Green, Milton, and H. G. Rogers, to Polaroid Corp. Mono azo dyes. 3,186,982, 6-1-65, Cl. 260-202.
- Green, Milton, and W. E. Solodar, to Polaroid Corp. Process for the preparation of amino-methyl-phenols. 3,187,049, 6-1-65, Cl. 260-580.
- Green, Milton, and W. E. Solodar, to Polaroid Corp. Nitro and aminophenoxyhydroquinones and the esters and ethers thereof. 3,188,343, 6-8-65, Cl. 260-479.
- Green, Milton, H. P. Husek, and S. Kasman, to Polaroid Corp. Dihydroxyphenylalkanoic acid amide derivatives. 3,214,469, 10-26-65, Cl. 260-559.
- Green, Milton, and L. E. Rubin, to Polaroid Corp. Novel photographic processes, compositions and products. 3,218,164, 11-16-65, Cl. 96-29.
- Green, Milton, and H. G. Rogers, to Polaroid Corp. Photographic products, compositions and processes employing azo dye developers. 3,222,169, 12-7-65, Cl. 96-29.
- Green, Milton J.: See—
- Clock, Philip T., White, and Green. 3,186,122.
- Green, Bernard J. and M. J. 3,217,873.
- Green, Milton W., to Radio Corp. of America. Memory systems. 3,181,126, 4-27-65, Cl. 340-173.1.
- Green, Milton W., to Stanford Research Institute. Cryogenic resistor employing inductance means to control superconductivity. 3,218,482, 11-16-65, Cl. 307-88.5.
- Green, Reginald, to The United Steel Cos. Ltd. Apparatus for use in controlling a rolling mill. 3,177,346, 4-6-65, Cl. 235-151.
- Green, Richard: See—
- Kraft, William M., and Green. 3,223,715.
- Green, Richard, to Tenneco Chemicals, Inc. Stabilization of polyacetals. 3,204,014, 8-31-65, Cl. 260-895.
- Green, Richard J.: See—
- Borger, Jack W., Vander, and Green. 3,189,388.
- Vander Linden, Frank A., and Green. 3,194,144.
- Green, Richard M., to Phillips Petroleum Co. Fractional crystallization apparatus including recycle control. 3,198,607, 8-3-65, Cl. 23-273.
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- Schatz, Ralph H., Tegge, Green, and Nadler. 3,197,519.
- Green, Robert H.: See—
- Green, George A. and R. H. 3,165,909.
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- Green, William P., R. M. and H. M. 3,190,032.
- Green, Rowland P., to Stothert & Pitt Ltd. Variable amplitude vibratory unit for vibratory machines. Re. 25,861, 9-21-65, Cl. 94-48.
- Green, Rowland P., and H. R. Cowley, to Stothert & Pitt Ltd. Transit mixer. 3,190,821, 6-22-65, Cl. 259-177.
- Green, Rowland P., to Stothert & Pitt Ltd. Vibrating rollers. 3,225,669, 12-28-65, Cl. 94-50.
- Green, Sherwood. Mobile platform incorporating elevationaly adjustable conveyor. 3,188,205, 2-2-65, Cl. 214-84.
- Green, Sydney J., and P. J. Nicholl, to Brown and Williamson Tobacco Corp. Production of tobacco smoking materials. 3,203,432, 8-31-65, Cl. 131-140.
- Green, Theron R., to Motor Ads, Inc. Advertising device for taxis and the like. 3,224,129, 12-21-65, Cl. 40-129.
- Green, Tord D.: See—
- Ekberg, Gustaf E., and Green. 3,221,738.
- Green, William F.: See—
- McKee, Herbert H., and Green. 3,208,379.
- Green, William F., to Special Devices, Inc. Closure arrangement. 3,172,716, 3-8-65, Cl. 339-19.
- Green, William G. Survey apparatus. 3,191,713, 6-29-65, Cl. 181-5.
- Green, William G., to Aquatron Engineering Corp. Water conditioning apparatus. 3,202,601, 8-24-65, Cl. 204-302.
- Green, William G., and D. M. Moody, to Aquatron Engineering Corp. Pipeline survey instrument. 3,195,236, 7-20-65, Cl. 33-141.
- Green, William P., R. M. and H. M. Hula hoop carrying vanned spinning part. 3,190,032, 6-22-65, Cl. 46-53.
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- Waterbury, Nelson J. 3,175,685.
- Greenawalt, Frederick A.: See—
- Dustinberre, Robert, Kraft, and Greenawalt. 3,226,021.
- Greenawalt, John E. deceased (J. S. Greenawalt, executrix). Conversion of sodium sulfide to sodium sulfate. 3,165,378, 1-12-65, Cl. 23-129.
- Greenawalt, John E.: See—
- Greenawalt, John E. 3,165,378.
- Greenawalt, George. Method of forming blister type packages. 3,192,681, 7-6-65, Cl. 53-30.
- Greenbaum, Sheldon B., to Hooker Chemical Corp. Halogenated phosphinopyranones. 3,200,131, 8-10-65, Cl. 260-343.5.
- Greenbaum, Sheldon B., to Hooker Chemical Corp. 2,5-dihydrothiophene S-substituted salts and process therefor. 3,218,336, 11-16-65, Cl. 260-329.
- Greenbaum, Sheldon B., and E. D. Well, to Hooker Chemical Corp. Bait-insecticide. 3,220,921, 11-30-65, Cl. 167-30.
- Greenberg, Alfred A.: See—
- Levy, Richard S., and Greenberg. 3,211,506.
- Greenberg, Cyrus M.: See—
- Blank, Benjamin, and Greenberg. 3,210,413.
- Greenberg, Elmer H. and W. B. Apparatus for scanning test heads over large objects. 3,188,859, 6-15-65, Cl. 73-71.5.
- Greenberg, Elmer H. and W. B. Apparatus for scanning large objects with a test-unit probe. 3,209,582, 10-5-65, Cl. 73-67.8.
- Greenberg, Gilbert S., Jr.: See—
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- Greenberg, Harry, and V. L. Hansley, to National Distillers and Chemical Corp. Polymerization process. 3,223,691, 12-14-65, Cl. 260-93.3.
- Greenberg, Max. Outrigger and pole holder. 3,212,740, 10-18-65, Cl. 248-40.
- Greenberg, Nathan. Carpet binding machine. 3,221,685, 12-7-65, Cl. 112-138.
- Greenberg, Robert L., to National Equipment Corp. Apparatus for feeding portions of a mixture of a fluid and solid materials. 3,199,744, 8-10-65, Cl. 222-255.
- Greenberg, Sol, and L. Dubin. Electrical power control apparatus. 3,221,241, 11-30-65, Cl. 321-47.
- Greenberg, William B.: See—
- Greenberg, Elmer H., and W. B. 3,188,859.
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- Greenberg's, M., Sons, Inc.: See—
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- Greenblatt, Joseph, to Talb Industries, Inc. Oiled dust cloth composition. 3,200,036, 8-10-65, Cl. 167-38.6.
- Greenblatt, Bernard J.: See—
- Adams, Lester B., and Greenblatt. 3,168,897.
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- Greenblatt, Bernard J., and R. A. Comparin, to International Business Machines Corp. Fluid controlled device. 3,226,530, 12-28-65, Cl. 235-61.11.
- Greene, Abbot, and P. Densen. Self sealing container. 3,184,144, 5-18-65, Cl. 229-37.
- Greene, Ben. Methods of heat treating articles. 3,168,607, 2-2-65, Cl. 266-5.
- Greene, Ben. Methods of heat treating articles. 3,202,553, 8-24-65, Cl. 148-20.3.
- Greene, Charles H.: See—
- Barr, James A., Jr., Greene, and Olsen. 3,202,365.
- Barr, James A., Jr., Greene, and Olsen. 3,204,877.
- Greene Datatype Inc.: See—
- Greene, George B. 3,171,529.
- Greene, George B., Nyfeler, and Willis. 3,219,165.
- Greene, Dewitt T., Jr. Engine torque measuring apparatus. 3,225,592, 12-28-65, Cl. 73-136.
- Greene, Elwood. Corn planter signaling means. 3,185,118, 5-25-65, Cl. 111-51.
- Greene, Franklin R. Methods of shoe manufacture using a radio frequency dielectric heater. 3,221,353, 12-7-65, Cl. 12-142.
- Greene, Frederic S., R. A. Johanson, G. E. Lofgren, and J. J. Moughty, to Electrolux Corp. Floor treating device with articulated handle. 3,204,272, 9-7-65, Cl. 15-49.
- Greene, Frederick C.: See—
- Price, Paul S., and Greene. 3,177,516.
- Greene, George B., to Greene Datatype Inc. Code controlled master control apparatus. 3,171,529, 3-2-65, Cl. 187-19.
- Greene, George B., A. Nyfeler, and W. E. Willis, to Greene Datatype Inc. Pneumatic control for typewriters requiring no vacuum or pressure source. 3,219,165, 11-23-65, Cl. 197-20.
- Greene, Harold R.: See—
- Batcher, Kenneth E., Greene, and Yochelson. 3,183,363.
- Greene, Harold R., to Electronic Associates Inc. Charge gate. 3,184,607, 5-18-65, Cl. 307-88.5.
- Greene, Harold R., to Electronic Associates Inc. Monostable multivibrator having time control circuitry isolated from input. 3,213,297, 10-19-65, Cl. 307-83.5.
- Greene, Haskell M., Jr. Apparatus for depositing cement or the like in a well. 3,187,813, 6-8-65, Cl. 166-55.1.
- Greene, James L., Jr.: See—
- Fuller, Harold R., and Greene. 3,191,892.
- Greene, Janice L.: See—
- Idol, James D., Jr., and Greene. 3,201,451.
- Idol, James D., Jr., Greene, and Gray. 3,202,697.
- Greene, Janice L., and J. D. Idol, Jr., to The Standard Oil Co. Adduct of cyclo-butane-1,2-dicyanide with sulfuric acid monohydrate and method of making same. 3,202,695, 8-24-65, Cl. 260-464.
- Greene, Janice L., J. D. Idol, Jr., and N. W. Standish, to The Standard Oil Co. Cyclobutane-1,2-dichloro-1,2-dicyanide. 3,202,696, 8-24-65, Cl. 260-464.
- Greene, John P., to Parachem Corp. Slide pack sheet dispenser. 3,186,542, 6-1-65, Cl. 206-57.
- Greene, John P., to Parachem Corp. Leaf dispenser. 3,226,110, 12-28-65, Cl. 271-41.
- Greene, Kermit: See—
- Pitt, Edgar W., and Greene. 3,224,159.
- Greene, Leonard M., to Safe Flight Instrument Corp. Gyro erection system for an airplane. 3,193,220, 7-6-65, Cl. 244-79.
- Greene, Nicholas H., Jr., and A. T. Flower. Tool for applying lashing wire to bundled conductor wires. 3,208,727, 9-28-65, Cl. 254-134.3.
- Greene, Norman A. Action toy operated by pounding. 3,169,344, 2-16-65, Cl. 46-132.
- Greene, Paul B., L. H. Le Valley, A. B. Mewhinney, and E. C. Nevin, to General Motors Corp. Polyphase stator winding apparatus. 3,210,020, 10-5-65, Cl. 242-1.1.
- Greene, Percy W., to Barbour Corp. Method of making beaded shoe welting. 3,167,795, 2-2-65, Cl. 12-146.
- Greene, Raymond E., and G. B. Novak. Attachable oil pump. 3,209,951, 10-5-65, Cl. 222-82.
- Greene, Robert G.: See—
- Dankoff, Joseph, and Greene. 3,179,303.
- Greene, Robert W., Jr.: See—
- Haufer, George J., and Greene. 3,195,622.
- Greene, Tudor C. Septic tank forms. 3,163,910, 1-5-65, Cl. 25-130.
- Greene, Tweed & Co.: See—
- Scannell, John B. 3,166,832.
- Greene, William J., to Air Reduction Co., Inc. Tracking system using flux relaxation. 3,179,786, 4-20-65, Cl. 219-125.
- Greene, William J., to Air Reduction Co., Inc. Pulse rate responsive motor control for a machine tool. 3,191,111, 6-22-65, Cl. 318-162.
- Greene, William J., and E. H. Daggett, to Air Reduction Co., Inc. Power supply regulating system. 3,199,016, 8-3-65, Cl. 321-25.
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- Berliner, Henry A., Lane, and Greene. 3,165,807.
- Greenwald, Herbert, Jr.: See—
- Beasley, Jack M., and Greenwald. 3,183,293.
- Greenwald, Herbert, Jr. Method and composition for forming precision molds. 3,164,872, 1-12-65, Cl. 22-193.
- Greenfield, Albert B. Barrier. 3,208,730, 9-28-65, Cl. 256-1.
- Greenfield, Anthony F., 1/2 to H. M. Gittleman. Tamper proof meter. 3,166,374, 1-19-65, Cl. 346-104.
- Greenfield, Daniel K., 1/4 to W. B. Udell. Loudspeaker system. 3,166,147, 1-19-65, Cl. 181-31.
- Greenfield, William D. Hook setter. 3,220,138, 11-30-65, Cl. 43-15.
- Greenhalgh, Donald M. S., and R. J. Sherwood, to United Kingdom Atomic Energy Authority. Diaphragm pumps. 3,166,239, 1-19-65, Cl. 230-170.
- Greenhalgh, Lindley C.: See—
- Symons, Lloyd G., Glass, and Greenhalgh. 3,195,801.
- Greenhalgh, Margaret C.: See—
- Symons, Lloyd G., Glass, and Greenhalgh. 3,195,801.
- Greenhalgh, Norman, and P. Arnall, to Imperial Chemical Industries Ltd., and The Midland Tar Distillers Ltd. 2,6-methoxyethylpyridine and its preparation. 3,223,710, 12-14-65, Cl. 260-297.
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- Knoll, David, and Greenhaus. 3,176,117.
- Greenhow, Henry E., to Veeder-Root Inc. Ratchet drive mechanism. 3,216,658, 11-9-65, Cl. 235-91.
- Greening, John P., to Phillips Petroleum Co. Signal correlation measurement. 3,219,938, 11-23-65, Cl. 328-133.
- Greening, John P., and R. A. Doubt, to Phillips Petroleum Co. Rotational seismometer. 3,225,327, 12-21-65, Cl. 340-17.
- Greening, William J.: See—
- Clegg, Norman E., and Greening. 3,210,220.
- Greening, William J., Jr., and N. E. Clegg, to Hi-Shear Corp. Pigmenting of titanium having titanium oxide coating electrolytic method of making pigment; and reflector and paint containing same. 3,199,999, 8-10-65, Cl. 106-287.
- Greenleaf Corp.: See—
- Copeland, Ronald R. 3,192,602.
- Greenleaf, Walter J. Cutting tool. 3,192,603, 7-6-65, Cl. 29-96.
- Greenleaf, Walter J. Rotary cutting tool. 3,205,559, 9-14-65, Cl. 29-105.
- Greenlee Bros. & Co.: See—
- Swanson, Edwin C. 3,217,731.
- Greenley, Robert Z., and M. L. Nielsen, to Monsanto Research Corp. Polymeric heterocyclic amides containing phosphorus and a 5,5' bibenzimidazole. 3,173,886, 3-16-65, Cl. 260-2.
- Greenlie, David G., to W. R. Grace & Co. Crown closure sealing disc. 3,193,127, 7-6-65, Cl. 215-39.
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- Lowery, Alexander B. 3,181,620.
- Greenly, John A., and A. I. Ristimaki. Brewing mechanism. 3,208,369, 9-28-65, Cl. 99-283.
- Greenly, Robert B., to Link Division of General Precision, Inc. Random access talking machine with intensity modulated film. 3,206,557, 9-14-65, Cl. 179-100.3.
- Greenman, William B., to Instron-Dynamics Corp. Chin-sured dental aspirator. 3,225,444, 12-28-65, Cl. 32-33.
- Greeno, Edward. Lock nuts. 3,220,453, 11-30-65, Cl. 151-7.
- Greenough, Francis W., to W. R. Grace & Co. Sheetting knife construction for bread wrapping machines. 3,212,883, 10-19-65, Cl. 83-564.
- Greenspan, Frank P., and M. H. Reich, to FMC Corp. Curable composition comprising unsaturated polyester, epoxidized polybutadiene, unsaturated monomer and organic peroxide. 3,217,066, 11-9-65, Cl. 260-835.
- Greenspan, George: See—
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- Greenspan, Sidney A. Musical instrument stand. 3,173,642, 3-16-65, Cl. 248-170.
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- Greenstadt, Joseph C., and D. F. Ziers, to Manufacturing Specialties Co., Inc. Apparatus for shifting drapery. 3,192,996, 7-6-65, Cl. 160-345.
- Greenstein, Murray. Bottle cap. 3,185,332, 5-25-65, Cl. 215-38.

- Greenwald, Harold A., to The Garrett Corp. Single valve refrigeration control. 3,217,749, 11-16-65, Cl. 137-625.18.
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- Griesmer, James H., J. P. Roth, and E. G. Wagner, to International Business Machines Corp. Error correction device utilizing spare substitution. 3,170,071, 2-16-65, Cl. 307-88.5.
- Griessel, Richard W., to General Electric Co. Getter operating at various temperatures to occlude various gases. 3,167,673, 1-26-65, Cl. 313-180.
- Griest, Edward M., to Corning Glass Works. Method of making an encapsulated impedance element. 3,220,097, 11-30-65, Cl. 29-155.69.
- Griest, Edward M., and W. H. Tarca, to Corning Glass Works. Electrical resistor. 3,217,281, 11-9-65, Cl. 338-309.
- Grieves, Gordon, and B. A. Holden, to Burgess Products Co. Ltd. Illuminated push-button-type electric switches. 3,209,111, 9-28-65, Cl. 200-187.
- Griffin, Anthony L., and E. G. Chetwynd. Bottle with self-contained drinking straw. 3,220,587, 11-30-65, Cl. 215-1.
- Griffin, Edward L., Jr.: See—
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- Griffin, Gary W., to American Cyanamid Co. Photodimerization of maleic anhydride. 3,203,886, 8-31-65, Cl. 204-158.
- Griffin, Gary W., to American Cyanamid Co. Photodimerization of fumaronitrile. 3,203,973, 8-31-65, Cl. 260-464.
- Griffin, George C. Window structure. 3,208,110, 9-28-65, Cl. 171,264, 3-2-65, Cl. 62-209.
- Griffin, Gerald R. Low-pressure and safety cut-in switch. 3,171,264, 3-2-65, Cl. 62-209.
- Griffin, James H. Built-in insecticide distribution system. 3,209,485, 10-5-65, Cl. 43-124.
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- Griffin, John T., to Griffwood, Inc. Step sawmilling with by-product chip production. 3,204,674, 9-7-65, Cl. 144-326.
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- Griffin, Karl L. Synthetic and natural fiber linked ribbon substrate material. 3,176,820, 4-6-65, Cl. 197-172.
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- Griffin, Phil H., III, to Bass Brothers Enterprises, Inc. Overload controlled drilling mud treatment system. 3,214,019, 10-26-65, Cl. 210-97.
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- Griffin, William F., to Radio Corp. of America. Multigrid electron tube and method of assembly thereof. 3,192,428, 6-29-65, Cl. 313-260.
- Griffin, William L. Lawn mower cleaner. 3,214,893, 11-2-65, Cl. 56-25.4.
- Griffin Wellpoint Corp.: See—
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- Griffith, Clifford J., and W. L. Peterson, to International Harvester Co. Loader. 3,207,341, 9-21-65, Cl. 214-140.
- Griffith, Earl G. Conveyor delivery system. 3,212,623, 10-19-65, Cl. 198-38.
- Griffith, Edward J., to Monsanto Co. Double nitrate salts and methods for their preparation. 3,173,756, 3-16-65, Cl. 23-102.
- Griffith, George L., and F. B. Wells, to Trojan Powder Co. Tamping plug for boreholes. 3,173,368, 3-16-65, Cl. 102-30.
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- Griffith, George L., to Trojan Powder Co. Canister for cast primer. 3,183,836, 5-18-65, Cl. 102-24.
- Griffith, George L., to Trojan Powder Co. Method for packaging explosives. 3,216,307, 11-9-65, Cl. 86-20.
- Griffith, George L., and T. P. Dowling, to Trojan Powder Co. Waterproof package for explosives. 3,200,743, 8-17-65, Cl. 102-24.
- Griffith, George W. S., and B. Wilson, to The General Electric Co. Ltd. Equipment frame mounting travelling wave tube and related apparatus. 3,189,792, 6-15-65, Cl. 317-90.
- Griffith, Harold W., to International Minerals & Chemical Corp. Separation of acetylglutamine. 3,206,506, 9-14-65, Cl. 260-527.
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- Griffith, Llewellyn B. Pond water circulator, aerator, and foam formation eliminator. 3,169,921, 2-16-65, Cl. 210-170.
- Griffith, Owen S. Grass mower attachment for edge-trimming. 3,197,950, 8-3-65, Cl. 56-255.
- Griffith, Ray E., and R. E. Kessler, to The Standard Oil Co. Liquid sampling apparatus. 3,201,995, 8-24-65, Cl. 73-422.
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- Griffith, Robert B., R. R. Johnson, and A. D. Quinn, to Brown & Williamson Tobacco Corp. Organoleptically improved tobacco product. 3,174,485, 3-23-65, Cl. 131-17.
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- Griffiths, Henry W., to The Magnavox Co. Magneto-optical transducer using a magnetic thin film. 3,196,206, 7-20-65, Cl. 178-6.6.
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- Grifo, Richard A., to General Aniline & Film Corp. Low foam-lug detergent. 3,215,033, 11-2-65, Cl. 252-152.
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- Grigger, John C., and H. C. Miller, to Pennsalt Chemicals Corp. Subzero temperature fuel and rocket ignition process. 3,213,610, 10-26-65, Cl. 60-35.4.
- Griggs, Flavi H. Trolly fishing reel. 3,201,890, 8-24-65, Cl. 43-27.4.
- Griggs, Glenn E., and C. T. Roessler, to Jennings Radio Mfg. Corp. Rotary stepping relay with radial spaced contacts and actuator means. 3,208,562, 9-14-65, Cl. 200-6.
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- Grillo, Salvatore J., to United States of America, Navy. Meteorological rocketsonde. 3,194,067, 7-13-65, Cl. 73-170.
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- Grimes, Arthur S., R. S. Hunter, and J. A. Tillinghast. Steam generator unit control system. 3,211,135, 10-12-65, Cl. 122-406.
- Grimes, Charles, 25% each to C. and D. L. Bregoff, J. J. Byrne, and T. P. Petrovich. Marine mooring device. 3,177,838, 4-13-65, Cl. 114-230.
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- Grimm, Donald F., to H. A. Fromson. Method of producing a double-walled tube with one of the tubes having integral therewith projecting fin means radially separating the tubes. 3,173,196, 3-16-65, Cl. 29-157.3.
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- Grimm, Paul W., to Spokane Steel Foundry Co. Dock rope anchor. 3,190,253, 6-22-65, Cl. 114-218.
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- Grimme, Brooks H., Jr., to United States of America, Army. Automatic switch controller. 3,215,865, 11-2-65, Cl. 307-92.
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- Grimmer, George G. and H. B. Schramm, deceased (by J. Schramm, executrix), to Otis Engineering Corp. Shifting tool for valves. 3,185,219, 5-25-65, Cl. 166-215.
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- Groesbeck, Charles H. Arm slings. 3,215,138, 11-2-65, Cl. 128-94.
- Groetschel, Karl M. Cantilever bar comprising and end portion adapted for securement. 3,216,168, 11-9-65, Cl. 52-632.
- Groetschel, Karl M. Advancing supporting device for walking mine-supporting constructions. 3,217,498, 11-16-65, Cl. 61-45.
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- Groff, Ellsworth E. Outdoor cooking appliances. 3,195,531, 7-20-65, Cl. 126-30.
- Groff, Emory L., and C. T. Walker, to Poor & Co. Rail anchor and method of making same. 3,193,201, 7-6-65, Cl. 238-330.
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- Grogan, George D. Stairclimbing wheelchair. 3,178,193, 4-13-65, Cl. 280-526.
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- Grohl, Edmund. Electrostatic flocking device including vibrating electrode. 3,211,129, 10-12-65, Cl. 118-638.
- Grohoski, Edward G., to The Hartford Special Machinery Co. Feed device for thread rolling machines and the like. 3,191,423, 6-29-65, Cl. 72-428.
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- Groll, Herbert P. A. Fractionation of oils by selective extraction. 3,186,938, 6-1-65, Cl. 208-316.
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- Gron, Nicholas. Driving mechanism for machines. 3,196,700, 7-27-65, Cl. 74-110.
- Gronbach, Wilhelm. Spring-loaded hinge for balancing the weight of a wing, lid or the like. 3,204,287, 9-7-65, Cl. 16-163.
- Gronberg, Anton B. Harvesters. 3,167,898, 2-2-65, Cl. 56-23.

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- Gronlund, Ernst H. Boat support. 3,221,899, 12-7-65, Cl. 214-1.
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- Gross, Albert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. N'-[1-phenyl-propyl-(2)]-N''-[phenylpyridyl-(2)]-ethylene diamine. 3,192,222, 6-29-65, Cl. 260-296.
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- Grubbs, Willie P. Hoop and trundling stick therefor. 3,222,818, 12-14-65, Cl. 46-220.
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- Gruber, Elbert E., and O. C. Keplinger, to The General Tire & Rubber Co. Polyurethane compositions cured with organic peroxides. 3,225,007, 12-21-65, Cl. 260-75.
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- Gruber, Leslie G. Adjustment means for a casket bed. 3,192,596, 7-6-65, Cl. 27-12.
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- Gruber, Wilhelm F., to E. I. du Pont de Nemours and Co. Bis-(azabicycloheptyl)thiocarbonylsulfides. 3,213,105, 10-19-65, Cl. 260-313.
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- Gruener, Frederick R., to Ametek, Inc. Laundry machines. 3,167,508, 1-26-65, Cl. 210-250.
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- Gwin, James M. Mounting frame for slides and the like. 3,195,258, 7-20-65, Cl. 40-158.
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- Haentjens, Walter D., and R. J. Lofquist, to Barrett-Haentjens & Co. Jet flow agitator. 3,171,635, 3-2-65, Cl. 259-4.
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- Hagans, Kenneth W. Animal feeder. 3,225,742, 12-28-65, Cl. 119-51.11.
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- Hageman, James R., to Whirlpool Corp. Cleaning tool. 3,184,780, 5-25-65, Cl. 15-547.
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- Hagemeyer, Hugh J., Jr., and R. L. Etter, Jr., to Eastman Kodak Co. Emulsifiable polyethylene waxes and process of preparation. 3,201,381, 8-17-65, Cl. 260-94.9.
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- Hallatt, Francis B., Jr.: See—
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- Hallatt, Robert J., deceased, by C. A. Whitebook, executor, to R. L. Rorschach. Process of refrigeration. 3,166,914, 1-26-65, Cl. 62-10.
- Hallatt, Robert J., deceased, by C. A. Whitebook, executor, to R. L. Rorschach. Absorber-stripper unit for an absorption-refrigeration system. 3,166,917, 1-26-65, Cl. 62-496.

- Hallauer, Walter, to Schweizerische Aluminium A.G. Composite frame. 3,225,502, 12-28-65, Cl. 52-461.
- Hallburg, Gerald M. Moving sign display device. 3,225,471, 12-28-65, Cl. 40-36.
- Hallberg, Irving H., to Borg-Warner Corp. Unthrottled internal combustion engine. 3,166,051, 1-19-65, Cl. 123-32.
- Hallberg, Irving H., to Borg-Warner Corp. Hydrostatic transmission anti-stall valve. 3,213,617, 10-26-65, Cl. 60-53.
- Hallberg, Karl M.: See—
- Ottosson, Carl O. L., Ovarnstrom, and Hallberg. 3,196,957.
- Halldemaskiner, AB.: See—
- Durling, Bengt. 3,200,866.
- Hallden, Andrew R., to Hazeltine Research, Inc. Stroboscopic readout of display tape. 3,222,666, 12-7-65, Cl. 340-324.
- Halliden, Frederick C., L. S. Conover, Jr., J. J. Farkas, and H. Curtis, to Cutler-Hammer, Inc. Data accumulation systems. 3,225,332, 12-21-65, Cl. 340-172.5.
- Halle, Roger J. Door and window structures for buildings. 3,198,297, 8-3-65, Cl. 189-46.
- Halleck, Frank E., to The Pillsbury Co. Method of treating soil. 3,214,866, 11-2-65, Cl. 47-58.
- Hallen, Alf E. Derricks for ships. 3,219,197, 11-23-65, Cl. 212-3.
- Hallenbeck, Victor L., to The B. F. Goodrich Co. Non-scorching curable carboxylic polymer compositions. 3,178,389, 4-13-65, Cl. 260-41.5.
- Hallenbeck, Virgil R.: See—
- Coppock, Kenneth E., and Hallenbeck. 3,223,446.
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- Haller, Belmont L., to Hunt Foods & Industries, Inc. Pear peeling process. 3,177,912, 4-13-65, Cl. 146-228.
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- Haller, Ernest R., to Societe Anonyme de Technique Chimique Stecco. Method and apparatus for grinding solid particles. 3,204,880, 9-7-65, Cl. 241-29.
- Haller, John. Molding apparatus. 3,200,442, 8-17-65, Cl. 18-10.5.
- Haller, John F.: See—
- Clark, Benjamin F., and Haller. 3,226,432.
- Haller, John N. Hydraulic compacting press. 3,191,232, 6-29-65, Cl. 18-16.7.
- Haller, Paul. Propulsion apparatus. 3,177,660, 4-13-65, Cl. 60-39.34.
- Hallerback, Stig L., to W. Dan Bergman, Aktiebolaget. Pumps with incorporated motor. 3,164,090, 1-5-65, Cl. 103-87.
- Hallerback, Stig L. Cooking vessels with a pouring lip. 3,225,973, 12-28-65, Cl. 225-572.
- Hallerberg, Don M. Shock proof switch assembly using interrupter means to disable actuating means. 3,176,105, 3-30-65, Cl. 200-153.
- Hallerberg, Don M., to Master Specialties Co. Illuminated signalling unit with light directing means. 3,220,001, 11-23-65, Cl. 340-381.
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- Hallett, Henry A., to Cheltenham Auto Controls Ltd. Pneumatic transmitters. 3,199,351, 8-10-65, Cl. 73-316.
- Halleux, Hubert, to Societe Alsacienne de Constructions Mecaniques. Fiber processing system. 3,192,571, 7-6-65, Cl. 19-65.
- Hallez, Charles P., to D. Boart. Cutting disc with diamonded segments. 3,203,140, 8-31-65, Cl. 51-206.
- Hallgren, Charles G., to National Lock Co. Lock assembly. 3,212,307, 10-19-65, Cl. 70-364.
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- Baker, Eugene E. 3,183,974.
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- Blake, William T. 3,220,561.
- Bravenec, Frank R. 3,181,057.
- Bretzke, Samuel C., Jr. 3,173,485.
- Carter, Lloyd G. 3,171,480.
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- Emery, Robert B., Alf. Bailey, and Mason. 3,212,824.
- Farley, David L. 3,190,360.
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- Herndon, Luther J., and Queen. 3,168,921.
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- Hallmark, Clyde E., and R. E. Martin, to TRW Inc. Automatic analog matrix computer. 3,218,443, 11-16-65, Cl. 235-180.
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- Hallowell, Howard T., Jr., to Standard Pressed Steel Co. Twist-off nut. 3,174,385, 3-23-65, Cl. 85-61.
- Hallowell, Howard T., Jr., to Standard Pressed Steel Co. Refractory-lined tundishes. 3,203,689, 8-31-65, Cl. 266-43.
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- Halls, Lawrence M., to Sperry Rand Corp. Mower mounting apparatus. 3,181,288, 5-4-65, Cl. 56-25.
- Halls, Lawrence M., to Sperry Rand Corp. Material handling apparatus-front lift type. 3,215,292, 11-2-65, Cl. 214-140.
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- Halperin, Benjamin D., J. Dickstein, G. Kitazawa, and R. Hoegerle, to The Borden Co. 2-methylenemalonate acid ester contact adhesive compositions. 3,197,318, 7-27-65, Cl. 106-208.
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- Halstrick, Robert T., to American Metal Works, Inc. Stools. 3,177,035, 4-6-65, Cl. 297-451.
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- Hamilton, Earl F., to Hamilton Cosco, Inc. Adjustable foot rest for a stroller. 3,199,893, 8-10-65, Cl. 280-47.4.
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- Hamilton, Earl F., R. B. Lay, and D. L. Moore, to Hamilton Cosco, Inc. Desk structure. 3,192,884, 7-6-65, Cl. 108-92.
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- Hamilton, Earl F., R. B. Lay, and E. K. Moore, to Hamilton Cosco, Inc. Folding chair. 3,199,915, 8-10-65, Cl. 297-42.
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- Hamilton, Joel A., to Polaroid Corp. Method of distributing and containing processing fluid between superposed sheets. 3,165,048, 1-12-65, Cl. 95-89.
- Hamilton, John F., to Hercules Powder Co. Explosive container with yieldable seal. 3,185,091, 5-25-65, Cl. 102-24.
- Hamilton, John F., to Hercules Powder Co. Explosive container with yieldable seal. 3,185,092, 5-25-65, Cl. 102-24.
- Hamilton Kent Mfg. Co.: See—
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Nathan, Tracy D. 3,173,699.
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- Hamilton, Leslie M., and W. B. Griffin, to Chrysler Corp. Shock absorber base valve. 3,194,262, 1-13-65, Cl. 137-493.
- Hamilton, Lyman L. Pistol loading clip. 3,182,417, 5-11-65, Cl. 42-89.
- Hamilton Mfg. Co.: See—
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- Hamilton, Merrill V., to United States Steel Corp. Knife-mounting means for slitting shear. 3,172,326, 3-9-65, Cl. 83-665.
- Hamilton, Noble E., to Clevite Corp. Zone refining methods and apparatus. 3,190,732, 6-22-65, Cl. 23-301.
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- Hamilton, Robert H., to Delcon Corp. Ultrasonic contaminant detecting. 3,182,489, 5-11-65, Cl. 73-67.
- Hamilton, Robert H., to Hartman-Leddon Co., Inc. Colorimetric determination of chlorides in serum. 3,185,549, 5-25-65, Cl. 23-230.
- Hamilton, Robert H., to Hewlett-Packard Co. Leak testing. 3,224,252, 12-21-65, Cl. 73-49.2.
- Hamilton, Robert S.: See—
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- Hamilton, Robert S. Dentifrice dispenser in combination with cooperating toothbrush. 3,191,803, 6-29-65, Cl. 221-200.
- Hamilton, Robert W., and K. J. Rorig, to G. D. Searle & Co. Aminoalkyl 3β,17β-dihydroxyandrost-5-en-17α-ylpropionates and 3-oxo-5-enes corresponding. 3,183,227, 5-11-65, Cl. 260-239.5.
- Hamilton, Samuel C., to Magor Car Corp. Pneumatically operated closure for drop-bottom hopper car. 3,166,024, 1-19-65, Cl. 105-240.
- Hamilton-Skotch Corp., The: See—
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- Hamilton Tool Co., The: See—
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Huffman, Harold W. 3,219,291.
- Hamilton, Vern E., to Douglas Aircraft Co., Inc. Ambient light trapping filter for cathode ray tubes. 3,194,885, 7-13-65, Cl. 178-7.82.
- Hamilton, Vern E., to Douglas Aircraft Co., Inc. Cathode ray tube screen and ambient light filter. 3,209,191, 9-28-65, Cl. 313-110.
- Hamilton, Vern E., to Douglas Aircraft Co., Inc. Method and apparatus for producing ambient light trapping filters. 3,215,054, 11-2-65, Cl. 95-75.
- Hamilton, Vern E., to Douglas Aircraft Co., Inc. Television set with ambient light trapping filter. 3,215,776, 11-2-65, Cl. 178-7.85.
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- Hamilton, Walker, Jr.: See—
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- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover truck structure. 3,179,402, 4-20-65, Cl. 268-18.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover system. 3,180,302, 4-27-65, Cl. 114-203.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover assembly. 3,180,303, 4-27-65, Cl. 114-203.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover actuator. 3,183,873, 5-18-65, Cl. 114-201.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Sealing structure. 3,217,686, 11-16-65, Cl. 114-202.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover system. 3,217,785, 11-16-65, Cl. 160-188.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover actuating mechanism. 3,220,467, 11-30-65, Cl. 160-188.
- Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover system. 3,224,491, 12-21-65, Cl. 160-188.
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- Hamilton Watch Co.: See—
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- Hamilton, William F. Light spot projection apparatus. 3,195,402, 7-20-65, Cl. 88-24.
- Hamilton, William F., to Lockheed Aircraft Corp. Antiseptic recirculating toilet sump compositions. 3,208,936, 9-28-65, Cl. 252-1.
- Hamilton, William H., and A. Nelkin, to United States of America, Navy. Continuous wave acoustic guidance system. 3,180,296, 4-27-65, Cl. 114-23.
- Hamilton, William, III: See—
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- Hamilton, William L., to General Electric Co. Mercury button switch with horizontal handle. 3,217,127, 11-9-65, Cl. 200-152.
- Hamisch, Paul H., Jr.: See—
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- Hamisch, Paul H., Sr., to The Monarch Marking System Co. Tag marking machine. 3,180,254, 4-27-65, Cl. 101-69.
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- Hamlet, Buck C., to Cambria Spring Co. Leaf spring suspension system with no-load feature and axle adjustment. 3,194,580, 7-13-65, Cl. 280-104.5.
- Hamlet, Heber J., and L. H. McCarthy. Process for refining and improving the quality of steel and other ferrous metals. 3,202,504, 8-24-65, Cl. 73-53.
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Hamm, Theodore F., deceased (by M. L. Hamm, executrix), and A. S. Lord, to Tool Research and Engineering Corp. Deadlocking latch for house trailers. 3,186,747, 6-1-65, Cl. 292-169.
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Hammell, Kemper M., to AMP Inc. Plug receiving contact. 3,223,962, 12-14-65, Cl. 939-256.
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Arlessohn, Edmond R., Hammerstein, and Shepherd. 3,215,823.
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Hancy, Raymond E. Educational device. 3,197,892, 8-3-65, Cl. 35-37.
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Hand, Ross L., Jr., and R. C. Sessing, to Lockheed Aircraft Corp. Cryogenic flask for a cooled infrared detector including an evacuated space for the infrared detector. 3,180,989, 4-27-65, Cl. 250-83.3.
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- Handing, Theodore E., to Amplifone Corp. Electrical component, tube, and tube-holder-shield combination. 3,225,259, 12-21-65, Cl. 317-99.
- Handi-Smoke, Inc.: See—
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- Handke, Patrick M.: See—
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- Handley, Frederick O. Wire stretching clamp. 3,211,426, 10-12-65, Cl. 254-83.
- Handley, Harold E., to Textron Inc. Safety control system for fluid distribution and apparatus. 3,166,084, 1-19-65, Cl. 137-77.
- Handley, Harold E., to McGraw-Edison Co. Tapered structural member and method of making the same. 3,196,990, 7-27-65, Cl. 189-23.
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- Handley, Joe G., and W. J. Saloga, to Associated Protective Coatings, Inc. Apparatus for internally coating small diameter pipe. 3,180,312, 4-27-65, Cl. 118-302.
- Handmann, Richard W., to Radio Corp. of America. Apparatus for producing electronic tube stems. 3,201,216, 8-17-65, Cl. 65-138.
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- Handwerk, Joseph H., G. D. White, and P. D. Shalek, to United States of America, Atomic Energy Commission. Uranium monosulfide-monocarbide nuclear fuel element. 3,194,745, 7-13-65, Cl. 178-67.
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- Hanel, Klaus. Collapsible boat. 3,170,174, 2-23-65, Cl. 9-2.
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- Hanes, Lewis F., C. L. Seefuth, and E. C. Beason, Jr., to Phillips Petroleum Co. Apparatus for welding thermoplastic forms. 3,175,939, 3-30-65, Cl. 156-499.
- Hanes, Robert H., to Minnesota Mining and Mfg. Co. Tape reel. 3,208,688, 9-28-65, Cl. 242-742.
- Haney, Donald W., and J. E. Hawhurst, to International Business Machines Corp. Sheet handling apparatus. 3,182,993, 5-11-65, Cl. 271-47.
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- Hanlein, Walter, and K. G. Gunther, to Siemens-Schuckertwerke Aktiengesellschaft. Mass spectrometer with particu-lar ion source for analysis of solid bodies. 3,223,836, 12-14-65, Cl. 250-41.9.
- Hanley, Harvey H., and A. E. Hanson, Jr. Double vortex combustion chamber apparatus. 3,200,870, 8-17-65, Cl. 163-4.
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- Hanmer, Robert S., to Phillips Petroleum Co. Production of polymer-carbon black masterbatch. 3,203,922, 8-31-65, Cl. 280-41.5.
- Hann, Kenneth G., to Somerset Wire Co. Ltd. Prestressing wire and method of manufacturing the same. 3,196,052, 7-20-65, Cl. 148-12.
- Hann, Melvin M., to Sundstrand Corp. Hydrostatic trans-mission. 3,212,263, 10-19-65, Cl. 60-53.
- Hann, Melvin M., and R. L. Power, to Sundstrand Corp. Pump or motor device. 3,191,548, 6-29-65, Cl. 103-162.
- Hann, Robert A., to United States of America, Agriculture. Process for reducing springback in pressed wood products. 3,173,460, 3-16-65, Cl. 144-309.
- Hanna, Allyn R. Vertically movable table. 3,212,367, 10-19-65, Cl. 77-63.
- Hanna, Delbert L., to Velsicol Chemical Corp. Process for preparing 2-methoxy-3,5,6-trichlorobenzoic acid. 3,210,414, 10-5-65, Cl. 260-521.
- Hanna, Edward C., to Landis Machine Co. Apparatus for orienting workpieces. 3,178,002, 4-13-65, Cl. 193-43.
- Hanna, Edward C., D. E. Youtz, and J. S. Rojahn, to Landis Machine Co. Apparatus for roll forming workpieces. 3,164,042, 1-5-65, Cl. 80-6.
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- Hannah, Jack W. Film alignment and braking device. 3,184,177, 5-18-65, Cl. 242-55.12.
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- Hannam, Herbert J., to General Electric Co. Thin film stor-age electrode. 3,207,937, 9-21-65, Cl. 313-89.

- Hannan, Peter W., and H. A. Wheeler, to United States of America, Army. Double-reflector antenna with critical di-mensioning to achieve minimum aperture blocking. 3,218,643, 11-16-65, Cl. 343-756.
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- Hannauer, George, Jr., B. M. Grimes, and C. H. Schaar, to The Kendall Co. Perforating machine and method of per-forating. 3,214,795, 11-2-65, Cl. 18-10.
- Hannauer, Louis, to Allis-Chalmers Mfg. Co. Transmission mechanism. 3,203,505, 8-31-65, Cl. 185-40.
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- Hannay, George A., to Clifford B. Hannay & Son, Inc. Static grounding reels. 3,176,931, 4-6-65, Cl. 242-107.7.
- Hanneman, Robert G., to The R.G.H. Co., Inc. Composition for magnetic particle testing. 3,214,378, 10-26-65, Cl. 252-62.5.
- Hanneman, Walter M., to Illinois Tool Works Inc. Milling machine for drill point thread cutting screw. 3,164,851, 1-12-65, Cl. 10-2.
- Hanneman, Walter M., to Illinois Tool Works Inc. Thread forming screw having oval threads and a cutting edge. 3,192,819, 7-6-65, Cl. 85-47.
- Hanneman, Walter W., to California Research Corp. Process for basic sulfurized metal phenates. 3,178,368, 4-13-65, Cl. 252-33.4.
- Hannemann, Heinz: See—
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- Hanner, George E.: See—
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- Hanne-Wiame, Emilie A., to Eugene Goffart & Cie. Mixing apparatus. 3,194,539, 7-13-65, Cl. 259-4.
- Hanni, Eduard. Adjustable machine frame support provid-ing alternate positions for mounting a pivoted operating arm. 3,212,830, 10-19-65, Cl. 308-22.
- Hannicq, Jacques G. L., and Y.-J. F. Brette, to Machines Bull (Societe Anonyme), Compagnie des. Plural motor control for coordinating the operation of various sections of data processing systems. 3,174,087, 3-16-65, Cl. 318-75.
- Hannicq, Jacques G. L., and Y.-J. F. Brette, to Machines Bull (Societe Anonyme), Compagnie des. Apparatus for coordi-nating the operations of various sections of data processing systems. 3,174,136, 3-16-65, Cl. 340-172.5.
- Hannigan, Mary V.: See—
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- Hannon, Donald C., to The Plessey Co. Ltd. Circuit for gen-erating a narrow band signal for digital data transmission over telephone lines. 3,206,978, 9-14-65, Cl. 328-163.
- Hannon, F. R., & Sons, Inc.: See—
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- Hannon, Harry B. Receptacle and bucket support. 3,220,682, 11-30-65, Cl. 248-211.
- Hannon, Thomas W., to F. R. Hannon & Sons, Inc. Elec-trically heated screen construction and method. 3,195,725, Cl. 209-238.
- Hannon, William F., to The Fafnir Bearing Co. Grinding machine. 3,169,351, 2-16-65, Cl. 51-103.
- Hannon, William F., to The Fafnir Bearing Co. Apparatus for grinding a bevel on circular objects. 3,182,428, 5-11-65, Cl. 51-118.
- Hannon, William J., Jr., to The Macbick Co. Container and closure therefor. 3,216,603, 11-9-65, Cl. 215-56.
- Hannula, Leslie A., M. B. Schaffer, and E. S. Ertl, to Acous-tics Development Corp. Wall mounted telephone booth. 3,164,868, 1-12-65, Cl. 20-3.5.
- Hanold, Paul A.: See—
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- Hanold, Paul A., to American Machine & Foundry Co. Arma-ture mounting means for electromechanical relays. 3,187,141, 6-1-65, Cl. 200-87.
- Hanon, Leroy C., to Ferro Corp. Heating unit. 3,200,237, 8-10-65, Cl. 219-451.
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- Hanrahan, Francis P., R. W. Bell, and B. H. Webb, to United States of America, Agriculture. Process for making puff spray dried nonfat dry milk and related products. 3,185,580, 5-25-65, Cl. 99-203.
- Hanrahan, William J., to American Envelope Co. Multiple copy business report assembly. 3,186,735, 6-1-65, Cl. 282-25.
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- Hansalk, Frederick. Kaiser roll reversing machine. 3,215,286, 11-2-65, Cl. 214-1.
- Hansberg, Fritz. Support for control slide of core and mold making machine. 3,174,196, 3-23-65, Cl. 22-10.
- Hansberg, Fritz. Seal for the pressure frame of a core and mold making machine. 3,212,141, 10-19-65, Cl. 22-10.
- Hansberg, Fritz. Seal for control slide of core and mold mak-ing machine. 3,225,396, 12-28-65, Cl. 22-10.
- Hanse, Albert B.: See—
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- Hanse, Albert B., and L. N. Kint, to Pettibone Mulliken Corp. Apparatus for crushing rock or the like including a swing-ing breaker bar. 3,170,643, 2-23-65, Cl. 241-189.
- Hansel, Otto, G.m.b.H.: See—
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- Hansel, Otto, Jr., and H. Lesch, to Otto Hansel, Jr. G.m.b.H. Apparatus to form piles of flat, fragile objects for sub-sequent packing. 3,177,630, 4-13-65, Cl. 53-240.
- Hansel, Paul G., to Servo Corp. of America. Doppler omni-range navigational system. 3,173,140, 3-9-65, Cl. 343-106.
- Hansel, Paul G., to Servo Corp. of America. Radio naviga-tion system. 3,183,507, 5-11-65, Cl. 343-106.
- Hansel, Paul G., to Servo Corp. of America. Radiosonde and tracking system. 3,199,101, 8-3-65, Cl. 343-7.6.
- Hansel, Paul G., and H. H. Waller, to Servo Corp. of America. Data transmission and resolving system. 3,177,478, 4-6-65, Cl. 340-209.
- Hansel, Paul G., W. H. Paulstich, and F. G. Richter, to Servo Corp. of America. Commutator with antenna-interaction suppressor. 3,213,458, 10-19-65, Cl. 343-876.
- Hansel, William B.: See—
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- Hanselmann, Frank. Windshield cleaning device. 3,169,676, 2-16-65, Cl. 222-373.
- Hansen, Andrew C., Jr., to Universal Oil Products Co. Radial flow reactor. 3,167,399, 1-26-65, Cl. 23-288.
- Hansen, Burton R. Convertible jaw pliers. 3,176,551, 4-6-65, Cl. 81-423.
- Hansen, Carl W., to Laboratory for Electronics, Inc. Col-limator system for beta radiation thickness gauge sensor. 3,185,843, 5-25-65, Cl. 250-83.3.
- Hansen, Carl W., to Laboratory for Electronics, Inc. Mois-ture gauging system. 3,216,241, 11-9-65, Cl. 73-75.
- Hansen, Carl W., and P. J. Clack, to Laboratory for Elec-tronics, Inc. Coin identification apparatus utilizing radia-tion bombardment. 3,188,471, 6-8-65, Cl. 250-83.3.
- Hansen, Carl W., and A. Cedroni, to Laboratory for Elec-tronics, Inc. Averaging system. 3,191,015, 6-22-65, Cl. 235-183.
- Hansen, Charles C., to Refrigerating Specialties Co. Re-frigeration pressure regulator. 3,189,041, 6-15-65, Cl. 137-489.5.
- Hansen, Charles L. Collapsible upright pasting surface. 3,169,080, 2-9-65, Cl. 118-42.
- Hansen, Christie L. Line attaching device. 3,173,222, 3-16-65, Cl. 43-44.91.
- Hansen, Clarence W. Fish lure retriever. 3,178,846, 4-20-65, Cl. 43-17.2.
- Hansen, Claude A. Electrical component securing means. 3,197,164, 7-27-65, Cl. 248-71.
- Hansen, Edward F. Liquid-solid separating apparatus. 3,168,033, 2-2-65, Cl. 100-179.
- Hansen, Elmer K. Barrel grab assembly for fork lift vehicle. 3,172,693, 3-9-65, Cl. 294-90.
- Hansen, Elmer K. Material unloading vehicle. 3,189,202, 6-15-65, Cl. 214-83.36.
- Hansen, Elmer K. Variable volume auger assembly. 3,197,075, 7-27-65, Cl. 222-134.
- Hansen, Elmer K. Positive parking brake. 3,200,907, 8-17-65, Cl. 188-69.
- Hansen, Elmer K. Bulk material blending and unloading vehicle. 3,215,408, 11-2-65, Cl. 259-9.
- Hansen, Elmer K. Carton grab assembly for lift vehicles. 3,223,265, 12-14-65, Cl. 214-650.
- Hansen, Francis F. Monoglycerol-fatty acid preparation. 3,216,829, 11-9-65, Cl. 99-118.
- Hansen, George. Silo discharge unit. 3,173,529, 3-16-65, Cl. 193-17.
- Hansen, George E., C. B. Stone, and A. Korzenowski, to Crane Co. Ball valve with flexible bonnet. 3,168,900, 2-9-65, Cl. 137-454.6.
- Hansen, George E., and A. Korzenowski, to Crane Co. Divided ball valve seat and trunnion. 3,171,431, 3-2-65, Cl. 137-454.6.
- Hansen, Gunnar B. Structure for lettering scribes. 3,218,717, 11-23-65, Cl. 33-23.
- Hansen, Gunnar B., and F. L. Johnson. Structure for letter-ing scribes. 3,189,056, 6-15-65, Cl. 120-98.
- Hansen, Hans H., to The Taylor-Winfield Corp. Rotary cur-rent transfer device. 3,208,025, 9-21-65, Cl. 339-5.
- Hansen, Harold V., to Deere & Co. Planter. 3,177,829, 4-13-65, Cl. 111-52.
- Hansen, Harold V., to Deere & Co. Hitch device. 3,194,322, 7-13-65, Cl. 172-310.
- Hansen, Harry. Apparatus and method for manufacturing slide fasteners. 3,197,537, 7-27-65, Cl. 264-287.
- Hansen, Harry I. Tilttable saw. 3,172,437, 3-9-65, Cl. 144-238.
- Hansen, Henry. Draft appliance. 3,195,668, 7-20-65, Cl. 180-14.5.
- Hansen, Howard J., to The Hansen Mfg. Co. Tube coupling. 3,188,123, 6-8-65, Cl. 285-277.
- Hansen, Jack T., and J. W. Broome, to The Oilgear Co. Speed control system. 3,225,542, 12-28-65, Cl. 60-53.
- Hansen, Jerald P. Laminated bowling pin. 3,206,207, 9-14-65, Cl. 273-82.

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Hansen, Lloyd F., and G. S. Bott, to American Cyanamid Co. Rotary pigment printer for gelatin strip for capsules. 3,203,347, 8-31-65, Cl. 101-219.
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Zibbell, Elmore L., and Hansen. 3,205,994.
Hansen, Oscar C., J. Pickles, and W. G. Gilmore, to Ferro Mfg. Corp. Adjustable vehicle seat and actuating mechanism therefor. 3,212,747, 10-19-65, Cl. 248-419.
Hansen, Quinten A., to R. H. and R. N. Stearns. Electro-magnetic couplings. 3,172,514, 3-9-65, Cl. 192-84.
Hansen, Quinten A., to R. H. and R. N. Stearns. Spring-applied magnetically-released brake. 3,221,845, 12-7-65, Cl. 188-171.
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Hansen, Ramon D., and D. E. Bridenstine, to Edgerton, Germeshausen & Grier, Inc. Avalanche transistor circuit. 3,223,854, 12-14-65, Cl. 307-88.5.
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- Hardison, Wilbur T.: See—
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Mathison, Victor G., and Hardison. 3,202,782.
- Hardison, Wilbur T., and V. G. Mathison, to Bourns, Inc. Rotary potentiometer brake. 3,172,070, 3-2-65, Cl. 338-163.
- Hardman, Albert F., to The Goodyear Tire & Rubber Co. Cyanoalkyl arylthiazolesulfenamide accelerators. 3,190,942, 6-22-65, Cl. 260-788.
- Hardman, H. V. Co., Inc.: See—
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- Baer, Josef. 3,218,030.
- Hardman, Harley F., to The Standard Oil Co. Refining of gas oil with hydrogen fluoride enriched sludge. 3,200,064, 8-10-65, Cl. 208-280.
- Hardman & Holden Ltd.: See—
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- Hardman, James A. Volume displacement means with sleeve valve control. 3,168,047, 2-2-65, Cl. 103-57.
- Hardman, James A., and R. W. Eskelson, to Utah Scientific Research Foundation. Wheel suspension system. 3,165,331, 1-12-65, Cl. 250-104.
- Hardman, James A., and R. W. Eskelson, to Utah Scientific Research Foundation. Smooth-riding, self-cleaning endless track. 3,165,364, 1-12-65, Cl. 305-13.
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- Hardway, Edward V., Jr., to Houston Instrument Corp. Logarithmic converter. 3,221,160, 11-30-65, Cl. 235-197.
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- Hardwick, Eugene R. Molding of foam plastic articles. 3,218,375, 11-16-65, Cl. 264-45.
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- Hardy, Albert L., C. E. Hauser, and J. E. Stiner, to General Electric Co. Comminuting assembly for a food waste disposer. 3,186,652, 6-1-65, Cl. 241-257.
- Hardy, Alexander, to General Motors Corp. Gearing. 3,206,997, 9-21-65, Cl. 74-462.
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- Hardy, George F., to Allied Chemical Corp. Production of copolymers of polycyclic aromatic compounds. 3,164,576, 1-5-65, Cl. 260-93.5.
- Hardy, George F., to Allied Chemical Corp. Production of polymers of alkyl-substituted vinyl aromatic compounds. 3,169,948, 2-16-65, Cl. 260-88.2.
- Hardy, George F., to Allied Chemical Corp. Homopolymers and copolymers of isopropenyl naphthalenes and processes of producing the same. 3,202,642, 8-24-65, Cl. 260-85.5.
- Hardy, Henry, to International Vulcanizing Corp. Conditioner for use with shoe bottom-molding and attaching apparatus. 3,171,161, 3-2-65, Cl. 18-17.
- Hardy, Herbert L., and W. J. Mahoney, to American Machine & Foundry Co. Temperature compensated voltage converter. 3,201,677, 8-17-65, Cl. 321-16.
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- Hardy, Maurice E., to Zenith Radio Corp. Tape recorder. 3,164,331, 1-5-65, Cl. 242-55.12.
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- Hardy, Norman, to Control Data Corp. Reading machine system with tape output. 3,226,529, 12-28-65, Cl. 235-61.11.
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- Hare, Harold H. Electronic organ speaker with tremolo effect. 3,204,722, 9-7-65, Cl. 181-31.
- Hare, Richard C., and G. Steln, to Applied Power Industries, Inc. Control system for hydrostatic transmission circuits. 3,173,258, 3-16-65, Cl. 60-53.
- Hare, Wilbert K., and M. Kaufman, to Ekco Products Co. Nesting and stacking receptacles. 3,219,196, 11-23-65, Cl. 211-126.
- Hare, Wilbert K., and M. Kaufman, to Ekco Products Co. Stacking receptacles. 3,219,231, 11-23-65, Cl. 220-97.
- Harel, Abraham, to United States of America, Atomic Energy Commission. Data processing. 3,222,670, 12-7-65, Cl. 340-347.
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- Hariton, Jon, to Neckermann Versand Kommanditgesellschaft. Conveyor system. 3,174,438, 3-23-65, Cl. 104-88.
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- Harmon, Robert W., to The Ohio Brass Co. Corona reduction in conductor clamps for high voltage transmission lines. 3,214,510, 10-26-65, Cl. 174-144.
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- Harney, Doran B., J. W. Harris, and R. C. Farnham, to Dresser Industries, Inc. Well pump. 3,171,630, 3-2-65, Cl. 253-48.
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- Harphey, Theodore R., to General Electric Co. Dimming system and apparatus for fluorescent lamps. 3,167,683, 1-26-65, Cl. 315-198.
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- Harpster, Norman R., to Universal-Cyclops Steel Corp. Stainless steels. 3,201,231, 8-17-65, Cl. 75-126.
- Harr, Herman H. Drink dispenser counter attachment. 3,204,830, 9-7-65, Cl. 222-181.
- Harr, John A.: See—
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- Harrach, John L. Pistons for internal combustion engines. 3,212,410, 10-19-65, Cl. 92-218.
- Harrel, Chastain G.: See—
- Rozsa, Tibor A., Gracza, Manning, and Harrel. 3,222,183.

- Harrel, Inc.: See—
- Darling, Horace E., and Harris. 3,204,172.
- Harrell, David, Jr., to R. T. Walker. Adjustable liquid metering device. 3,224,638, 12-21-65, Cl. 222-64.
- Harrell, Edward B., and I. A. Guthrie; said Guthrie assor. to said Harrell. Liquid level indicator. 3,199,199, 8-10-65, Cl. 33-126.4.
- Harrett, Ernest F. Harvester. 3,187,493, 6-8-65, Cl. 56-330.
- Harris Electronics Corp. Ltd.: See—
- Harris, John H. O. 3,179,844.
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- Harriger, Keith A., to United States of America, Navy. Stable blocking oscillator for generation of asymmetric bidirectional current pulses. 3,226,616, 12-7-65, Cl. 331-113.
- Harrill, Chivous G. Apparatus for pouring floors of a multi-story building. 3,194,532, 7-13-65, Cl. 249-19.
- Harriman, Benjamin R., to Minnesota Mining and Mfg. Co. Electrolytic recording sheets. 3,165,458, 1-12-65, Cl. 204-18.
- Harriman, Lester W.: See—
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- Teumac, Fred N., and Harriman. 3,214,479.
- Harriman Mfg. Co., The: See—
- Mortashed, Merle H. 3,181,621.
- Pettit, William H. 3,193,306.
- Harriman, Thomas J.: See—
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- Harrington, Bert S., Jr.: See—
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- Harrington, Dean B., to General Electric Co. Polyphase generators. 3,201,627, 8-17-65, Cl. 310-198.
- Harrington, Eugene M., and M. I. Masterson. Hand sander. 3,224,149, 12-21-65, Cl. 51-386.
- Harrington, Francis C., Sr. Cleaning nozzle. 3,220,042, 11-30-65, Cl. 15-325.
- Harrington, Frederick G., to Industrial Air Filters, Ltd. Air filtering blanket for an air filtering system. 3,201,926, 8-24-65, Cl. 55-486.
- Harrington, George F.: See—
- Lovett, William E., and Harrington. 3,225,665.
- Harrington, George R., to Rockwell-Standard Corp. Method of manufacturing a tapered needle bearing universal joint. 3,216,087, 11-9-65, Cl. 29-148.4.
- Harrington, Joseph J. Picker station for a tobacco harvester. 3,197,042, 7-27-65, Cl. 214-5.5.
- Harrington Mfg. Co., Inc.: See—
- Danford, Tiras J. 3,197,948.
- Harrington, Peter T. R., to Goodman & Vandervieren Ltd. Stapling or tacking machines. 3,194,465, 7-13-65, Cl. 227-120.
- Harrington, Richard H., to International Business Machines Corp. Sheet handling apparatus. 3,179,406, 4-20-65, Cl. 271-76.
- Harrington, Robert C., Jr., and J. L. Smith, to Eastman Kodak Co. Cellulose acetate fibers modified with diisocyanatepolyoxyethylene reaction products. 3,213,046, 10-19-65, Cl. 260-13.
- Harrington, Roy E.: See—
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- Harrington, Roy E., to Deere & Co. Die structure for wafering machine. 3,177,821, 4-13-65, Cl. 107-14.
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- Harrington, Roy V.: See—
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- Harrington, William B., to Ferranti, Ltd. Sequence spark gap system with perforated gap electrodes. 3,169,208, 2-9-65, Cl. 315-36.
- Harrington, Winfred O., and C. H. Hills, to United States of America, Agriculture. Process for peeling waxy fruit. 3,169,564, 2-16-65, Cl. 146-235.
- Harris, Alva F.: See—
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- Harris, Alva F., to Monsanto Co. Suspension polymerization of styrene in presence of amino polyacetic acid compound. 3,186,975, 6-1-65, Cl. 260-93.5.
- Harris, Alva F., to Monsanto Co. Process for preparing polymers using a catalyst system comprising arylethylene oxide, polymeric vinyl aromatic peroxide and monocarboxylic acid. 3,214,493, 10-26-65, Cl. 260-880.
- Harris, Alva F., to Monsanto Co. Process for preparing polymers using a catalyst system comprising arylethylene oxide, aryl dicarbonyl and monocarboxylic acid. 3,214,494, 10-26-65, Cl. 260-880.
- Harris, Alva F., to Monsanto Co. Process for polymerizing monomers using a catalyst system comprising arylethylene oxide, quinone and monocarboxylic acid. 3,214,495, 10-26-65, Cl. 260-880.
- Harris, Alva F., to Monsanto Co. Mass polymerization process using a catalyst system comprising hydrogen peroxide, peroxy compound and monocarboxylic acid. 3,214,496, 10-26-65, Cl. 260-880.
- Harris, Alva F., to Monsanto Co. Process for polymerizing monomers using a catalyst system comprising diethylene, alpha-ketol and monocarboxylic acid. 3,214,497, 10-26-65, Cl. 260-880.
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- Harris, Artell L. Sand blaster's helmet. 3,181,532, 5-4-65, Cl. 128-142.
- Harris, Arthur O. Picture projecting system with remote portable control. 3,202,044, 8-24-65, Cl. 88-24.
- Harris, Benton N., and W. M. Miller, Jr., to T-Fal Corp. Method and apparatus for acid treating and coating metallic surfaces with plastic. 3,211,571, 10-12-65, Cl. 117-49.
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- Callow, Alan E., and Harris. 3,169,380.
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- Lewis, Harry S., Capper, and Harris. 3,194,906.
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- Harris, Charles O., to L. L. Ridgway Enterprises, Inc. Triangular slide rule. 3,188,004, 6-8-65, Cl. 235-70.
- Harris, Clarence A., to United States of America, Atomic Energy Commission. High voltage cable. 3,193,712, 7-6-65, Cl. 307-147.
- Harris, Clyde W.: See—
- Powell, Richard W., and Harris. 3,220,298.
- Harris, Clyde W., and P. S. Sugino, to Hughes Aircraft Co. Large field, high resolution radiant energy detection system. 3,180,206, 4-27-65, Cl. 88-1.
- Harris, Clyde W., P. S. Sugino, and R. S. Neiswander, to The TE Co. System for optically determining curvature of an object. 3,183,519, 5-11-65, Cl. 351-17.
- Harris, David A.: See—
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- Harris, David A., to National Gypsum Co. Door frame clip. 3,189,137, 6-15-65, Cl. 189-36.
- Harris, Dennis: See—
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- Harris, Donald A., and R. C. Shoemaker, to Hyter Co. Lift truck with suction counterpoise. 3,165,217, 1-12-65, Cl. 214-670.
- Harris, Donald B., deceased (L. A. Carley, executor). Electronic control system for directing a torpedo at a target. 3,196,821, 7-27-65, Cl. 114-23.
- Harris, Donald S., to New Castle Products, Inc. Folding door. 3,167,111, 1-26-65, Cl. 180-183.
- Harris, Dwight E., to Rotron Mfg. Co., Inc. Fan housing. 3,173,605, 3-16-65, Cl. 230-120.
- Harris, Dwight E., to Rotron Mfg. Co., Inc. Motor terminal assembly. 3,185,875, 5-25-65, Cl. 310-71.
- Harris, Earl L. Tire repair fixture. 3,201,084, 8-17-65, Cl. 254-50.4.
- Harris, Edward E., to Olin Mathieson Chemical Corp. Lubricating compositions containing condensation polymers of chloromethyl aromatics. 3,203,898, 8-31-65, Cl. 252-59.
- Harris, Edward F., J. W. Hart, and C. E. Raimen, to Dynascan Corp. Helical antenna with adjustable length by switching. 3,179,941, 4-20-65, Cl. 343-723.
- Harris, Edward H., to Acrometal Products, Inc. Annealing oven for continuously moving wire. 3,169,157, 2-9-65, Cl. 266-3.
- Harris, Edward H., to Acrometal Products, Inc. Apparatus for coating wire with viscous material. 3,194,210, 7-13-65, Cl. 118-104.
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- Harris, Edward P., to General Motors Corp. Pneumatic container and method and apparatus for making same. 3,201,929, 8-24-65, Cl. 57-15.
- Harris, Edward P., and C. L. Moorman, to General Motors Corp. Apparatus and article of manufacture. 3,199,182, 8-10-65, Cl. 29-235.
- Harris, Edward P., and C. L. Moorman, to General Motors Corp. Elastomeric sealing strip and mounting means assembly procedure. 3,199,184, 8-10-65, Cl. 29-429.
- Harris, Edward P., C. L. Moorman, M. V. Roode, and R. W. Lyday, to General Motors Corp. Method of extruding a smooth surfaced sponge vinyl resin article. 3,219,733, 11-23-65, Cl. 264-48.
- Harris, Edward P., and C. L. Moorman, to General Motors Corp. Apparatus and article of manufacture. 3,225,641, 12-28-65, Cl. 85-5.
- Harris, Eric J.: See—
- Nock, Oswald S., and Harris. 3,187,326.
- Harris, Frank M., to Owens-Illinois Glass Co. Packaging tacky latex emulsion paints in containers manufactured from polyolefinic materials. 3,184,060, 5-18-65, Cl. 206-84.
- Harris, Frank R., to Associated Electric Industries Ltd. Expansion devices for turbine casings. 3,169,749, 2-16-65, Cl. 253-39.
- Harris, Frederick J.: See—
- Baynham, John W., and Harris. 3,192,034.

- Harris, George A., to Omnitronics, Inc. Tape reeler. 3,172,611, 3-9-65, Cl. 242-55.12.
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- Harris, Jack, to Korfund Dynamics Corp. Shock isolating means for impact machine. 3,218,008, 11-16-65, Cl. 248-22.
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- Harris, John F., and D. W. J. Lane, to Fisons Pest Control Ltd. Process for preparing tetrachloro-5,6-dinitrobenzene and tetrachloro-O-phenylene diamine. 3,166,594, 1-19-65, Cl. 260-580.
- Harris, John F., Jr., and D. I. McCane, to E. I. du Pont de Nemours and Co. Fluorocarbon ethers. 3,180,895, 4-27-65, Cl. 260-614.
- Harris, John L. Control device. 3,180,156, 4-27-65, Cl. 74-1.
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- Harris, John L. Control device. 3,199,012, 8-3-65, Cl. 318-466.
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- Harris, Rano J., to Microtox Instruments, Inc. Sample injection in gas chromatography. 3,205,711, 9-14-65, Cl. 73-422.
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- Harris, Raymond C.: See—
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- Harris, Raymond N., and R. L. Knaus, to Armour and Co. Recovery of sausage meat from hog bellies. 3,175,592, 3-30-65, Cl. 146-241.
- Harris, Richard A., to Western Electric Co., Inc. Belt conveyor for transporting electrical components. 3,171,535, 3-2-65, Cl. 198-131.
- Harris, Richard A., to Western Electric Co., Inc. Apparatus for loading and unloading conveyor belts. 3,187,940, 6-8-65, Cl. 221-74.
- Harris, Richard V.: See—
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- Harris, Robert M., and R. H. Wlethoff, to United States of America, Navy. Arming tool mechanism. 3,166,980, 1-26-65, Cl. 89-17.
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- Harris, Ronald E., to Texas Instruments Inc. Diffusion method. 3,203,840, 8-31-65, Cl. 148-187.
- Harris, Samuel. Press for a dental flask. 3,191,226, 6-29-65, Cl. 18-5.7.
- Harris, Samuel. Dental flasks. 3,224,044, 12-21-65, Cl. 18-33.
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- Harris, Stanton A., and J. P. Hummel, to State University of Iowa. Phosphoricamide polymers. 3,211,697, 10-12-65, Cl. 260-47.
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- Harris, Thomas J., to International Business Machines Corp. High speed electro-optic printer. 3,220,013, 11-23-65, Cl. 340-107.
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- Harris, Thurman C., Jr., 33 1/2% to J. C. Julian and 33 1/2% to B. E. Ingie. Cable connectors. 3,210,720, 10-5-65, Cl. 339-149.
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- Harris, Wilbur T., to The Harris Transducer Corp. Transmission of vibratory energy. 3,176,788, 4-6-65, Cl. 181-29.
- Harris, William C.: See—
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- Harris, William W.: See—
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- Harris, Woodrow D.: See—
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- Harrison, Blair H.: See—
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- Harrison, Charles W., to Hewlett-Packard Co. Interconnection of power supply units. 3,185,856, 5-25-65, Cl. 307-55.
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- Harrison, Christopher J.: See—
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- Harrison, Don E.: See—
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- Harrison, Edwin H., Jr., to United States of America, Army. Tunnel diode counter with double count capacity producing staircase waveform having both ascending and descending steps. 3,184,614, 6-18-65, Cl. 307-88.5.
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- Harrison, George C., and L. G. Axidahl, to Minnesota Mining and Mfg. Co. Vitified clasp joint of cast in place polyurethane. 3,201,136, 8-17-65, Cl. 277-193.
- Harrison, Harvey M., and G. F. Herrmann, to Plastron Corp. Polyfluorinated ethylene polymer-metal article and method. 3,167,491, 1-26-65, Cl. 204-30.
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- Harrison, Homer S., to Mechanical Handling Systems, Inc. Entrance switch for conveyors. 3,196,804, 7-27-65, Cl. 104-96.
- Harrison, Homer S., to Mechanical Handling Systems, Inc. Live roller conveyor. 3,199,657, 8-10-65, Cl. 198-127.
- Harrison, Homer S., to Mechanical Handling Systems, Inc. Conveyor system with accumulating trolley units. 3,200,768, 8-17-65, Cl. 104-172.
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- Harrison, James A. Fuel gas fired heater with automatic damper means. 3,199,848, 8-10-65, Cl. 263-19.
- Harrison, James A., to Davy and United Engineering Co. Controlling or detecting apparatus. 3,200,241, 8-10-65, Cl. 235-92.
- Harrison, James A. Automatic gas burner with variable flame port area. 3,223,142, 12-14-65, Cl. 158-117.
- Harrison, James B.: See—
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- Harrison, James B., and O. L. Magell. Alkyl peroxy triazines. 3,168,518, 2-2-65, Cl. 260-248.
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- Harrison, James M., to Crown Machine & Tool Co. Method of making cups. 3,200,175, 8-10-65, Cl. 264-53.
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- Harrison Jet Guns, Ltd.: See—
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- Harrison, John R., and M. J. Andera, to The Rath Packing Co. Method of rendering fatty materials. 3,180,880, 4-27-65, Cl. 260-412.3.
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- Lowry, Robert D., Kirkpatrick, and Harrison. 3,206,906.
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- Harrison, Robert H. C. Eye shades. 3,183,523, 5-18-65, Cl. 2-13.
- Harrison, Robert H. C., and A. H. Bamber. Picture projection apparatus. 3,205,771, 9-14-65, Cl. 88-24.
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- Harrison, Verne S., to The Ryan Aeronautical Co. Asymmetrical jet nozzle noise suppressor. 3,174,282, 3-23-65, Cl. 60-35.6.
- Harrison, Walter G., and J., to Prospect Mfg. Co., Inc. Automatic sortation system. 3,167,192, 1-26-65, Cl. 214-62.
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- Hartz, Joseph M., and C. W. Vogel, to Automatic Electric Laboratories, Inc. Push button assembly. 3,226,494, 12-28-65, Cl. 200-5.
- Hartz, Julius. Push-pull amplitude modulator. 3,179,903, 4-20-65, Cl. 332-43.
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- Heier, James T. Lithographic exposure apparatus and method. 3,200,730, 8-17-65, Cl. 95-73.
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- Heller, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of high molecular weight polyoxymethylene esters and ethers with a definite degree of polymerization. 3,193,531, 7-6-65, Cl. 260-67.
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- Hellerbach, Joseph, P. Quitt, and K. Vogler, to Hoffmann-La Roche Inc. Preparation of optically active naturally occurring N-monomethyl-amino carboxylic acids. 3,178,472, 4-13-65, Cl. 260-518.
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- Hellstrom, Melbourne J., to Westinghouse Electric Corp. Multivibrator for television deflection circuit. 3,170,072, 2-16-65, Cl. 307-88.5.
- Hellstrom, Melbourne J., to Westinghouse Electric Corp. Transistor deflection circuit. 3,206,634, 9-14-65, Cl. 315-27.
- Hellweg, Kurt H. W., to Societe Civile Pour l'Etude d'Engins a Pistons Libres E.P.L. Floating-piston internal-combustion machine. 3,183,900, 5-18-65, Cl. 123-41.78.
- Helm Accessories, Inc.: See—
- Genthe, Walter A. 3,171,578.
- Helm, Frederick A. 3,223,301.
- Helm, Frederick A. 3,223,302.
- Helm, Bobby J. Cleaning apparatus for fibrous material. 3,172,165, 3-9-65, Cl. 19-203.
- Helm, Charles D. Process for producing chloralkyl hydrazinium chlorides. 3,209,032, 9-28-65, Cl. 260-583.
- Helm, Charles D., and C. B. Bayles, to W. R. Grace & Co. Automatic catalyst dispenser. 3,195,776, 7-20-65, Cl. 222-63.
- Helm, Edward J.: See—
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- Helm, Frederick A., to Helm Accessories, Inc. Car top carrier. 3,223,301, 12-14-65, Cl. 224-42.1.
- Helm, Frederick A., to Helm Accessories, Inc. Car top ski rack. 3,223,302, 12-14-65, Cl. 224-42.1.
- Helm, Mark W., W. A. Humphrey, and M. H. Ripple to The Hoover Co. Connecting devices. 3,212,795, 10-19-65, Cl. 285-7.

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- Henkels, Paul L.: See—
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- Henley, John W., to The Eagle-Picher Co. Articulated seal. 3,166,333, 1-19-65, Cl. 277-199.
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- Henman, Cecil B., to Brentford Transformers Ltd. Electrical systems. 3,179,876, 4-20-65, Cl. 323-45.
- Henmueller, Frank, to Motorola, Inc. Automatic gain control system for suppressed carrier single sideband radio receivers. 3,165,699, 1-12-65, Cl. 325-410.
- Henn, Richard W.: See—
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- Hennagin, George T., Jr., 1/2 to W. M. Skells. Auto trunk clothing carrier. 3,209,969, 10-5-65, Cl. 224-29.
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- Henne, Alfred M. Digital range readout for sonar and radar. 3,181,154, 4-27-65, Cl. 343-13.
- Henne, Fred M. Electric lighting fixture hanger. 3,225,154, 12-21-65, Cl. 200-51.09.
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- Henneman, John W., to The Bendix Corp. Fluid control apparatus. 3,183,917, 5-18-65, Cl. 137-81.
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- Hennequin, Ernest A. G., to Societe d'Etudes et d'Applications Industrielles et Immobilières, "Inter-Technique." Device for regulating the supply of fuel injected into an internal combustion engine. 3,169,513, 2-16-65, Cl. 123-140.
- Hennequin, Francois, to Compagnie de Saint-Gobain. Surfacing of glass. 3,216,152, 1-9-65, Cl. 51-112.
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- Henrior, W. S., to The Bendix Corp. Frequency discriminator. 3,221,260, 11-30-65, Cl. 329-123.
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- Hings, Donald L. Radio control system. 3,182,328, 5-4-65, Cl. 343-112.
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- Hinrichs, Karl, to Beckman Instruments, Inc. Wide-band isolator. 3,217,264, 11-9-65, Cl. 330-10.
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- Hinrichs, Paul R., 50% to J. H. Farley. Wrench. 3,165,015, 1-12-65, Cl. 81-179.
- Hinrichs, Robert W. Tool for clearing corn harvesters. 3,203,517, 9-14-65, Cl. 15-104.
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- Hogg, James R., Sr. Carburetor construction. 3,212,760, 10-19-65, Cl. 261-23.
- Hogg, John A.: See—
- Korman, Jerome, and Hogg. 3,193,459.
- Nathan, Alan H., Hogg, and Schneider. 3,165,543.
- Hogg, John A., and A. H. Nathan, to The Upjohn Co. 2a-fluoro-11-oxygenated-17a-hydroxy-4,6-pregnadiene-3,20-diones. 3,177,230, 4-6-65, Cl. 260-397.45.
- Hogg, Stanley T., to American Machine & Foundry Co. Variable pressure hydraulic system. 3,186,173, 6-1-65, Cl. 60-54.5.
- Hoglund, John B., to American Machine & Foundry Co. Apparatus for controlling glue pattern. 3,180,311, 4-27-65, Cl. 118-211.
- Hoglund, Nils. Apparatus for forming contours. 3,165,027, 1-12-65, Cl. 90-13.3.
- Hoglund, Nils. Apparatus for forming contours. 3,169,448, 2-16-65, Cl. 90-13.
- Hoglund, Nils. Apparatus for forming parabolic surfaces. 3,180,268, 6-1-65, Cl. 82-11.
- Hoglund, Nils. Apparatus for forming contours on work pieces. 3,195,281, 7-20-65, Cl. 51-233.
- Hoglund, Nils. Couplings. 3,216,219, 11-9-65, Cl. 64-9.
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- Hogue, Lawrence J., to General Electric Co. Palloraskite dielectric capacitor. 3,185,906, 5-25-65, Cl. 317-258.
- Hogue, Marcus P., to General Electric Co. Sump construction for a food waste disposer. 3,182,111, 5-4-65, Cl. 264-272.
- Hogue, Marcus P., to General Electric Co. Encapsulated electric motor. 3,210,577, 10-5-65, Cl. 310-43.
- Hogue, Paul G.: See—
- Welch, Russell A., Sr. 3,223,827.
- Hohl, John, and J. M. Wheaton, to Owens-Illinois Glass Co. Closure with integrally formed sealing surface. 3,224,017, 12-21-65, Cl. 215-31.
- Hohl, Robert W., to Standard Pressed Steel Co. Partition panel assembly. 3,209,501, 10-5-65, Cl. 52-309.
- Hohla, Johannes. Multi-storied building construction. 3,213,572, 10-26-65, Cl. 52-73.
- Hohler, Albert: See—
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- Hohler, Frederick A., and R. S. Hahn, to The Heald Machine Co. Grinding machine. 3,197,921, 8-3-65, Cl. 51-103.
- Hohler, Herbert J. Coin operated engine heater. 3,213,994, 10-26-65, Cl. 194-1.
- Hohmann, Albert, to Tallier & Cooper, Inc. Punched tape feed. 3,190,548, 6-22-65, Cl. 234-128.
- Hohmann, Albert F., to American Electronics, Inc. Sequential card reader. 3,178,175, 4-13-65, Cl. 271-52.
- Hohmann, Frederick R., and H. E. Neely, to Pittsburgh Plate Glass Co. Apparatus for heat treating glass sheets. 3,160,397, 1-19-65, Cl. 65-268.
- Hohmann, Lawrence A., Jr., to Bell Telephone Laboratories, Inc. Telephone anti-sidetone circuit. 3,170,043, 2-16-65, Cl. 179-81.
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- Hohne, Per, to A/S Nitro Atomizer. Air lock arrangement and method for transferring a powder from a chamber maintaining a rotary flow of gas, to pneumatic conveyor plant. 3,195,241, 7-20-65, Cl. 34-10.
- Hobbs, Joseph A., to Scope, Inc. Organ pre-set. 3,187,618, 6-8-65, Cl. 84-341.
- Hohwart, George, to N. A. Woodworth Co. Spindle bearing. 3,186,776, 6-1-65, Cl. 308-65.
- Hohwart, George, and P. Toth, to N. A. Woodworth Co. Diaphragm gear chuck. 3,190,664, 6-22-65, Cl. 279-1.
- Holberg, Arnold J., and E. Licata, to The Flintkote Co. Plastic compositions for flooring. 3,174,977, 3-23-65, Cl. 260-31.8.
- Holberg, Douglas I.: See—
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- Hoho, Toki, and H. Takeya, to Hitachi, Ltd. High speed apparatus for line-printing. 3,187,667, 6-8-65, Cl. 101-93.
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- Holaday, Reed E.: See—
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- Holahan, Joseph M., to True Temper Corp. Drag mechanism for a spinning reel. 3,223,349, 12-14-65, Cl. 242-84.45.
- Holak, William D., C. E. McCarty, and E. K. Hyypolainen, to Scott Paper Co. Analog computer. 3,191,016, 6-22-65, Cl. 235-185.
- Holbein, Raymond G., to Fabriques de Produits Chimiques de Thann et de Mulhouse. Rutile titanium dioxide pigments and process for their production. 3,169,074, 2-9-65, Cl. 106-300.
- Holbein, Robert D., E. B. Stanley, and H. G. Stout, to United States Steel Corp. Use of a particular coiling temperature production of electrical steel sheet. 3,188,250, 6-8-65, Cl. 148-120.
- Holben, Bernard C., to Industrial Nucleonics Corp. Linear motion diverter mechanism for conveyors. 3,194,376, 7-13-65, Cl. 193-36.
- Holben, Clair D., to Cryogenic Engineering Co. Suspension system for dewar-type containers. 3,217,920, 11-16-65, Cl. 20-15.
- Holberg, William L., to Socony Mobil Oil Co., Inc. Conduit windup reel. 3,222,002, 12-7-65, Cl. 242-54.
- Holbert, Don R., to Sinclair Research, Inc. Hydraulic fracturing. 3,198,253, 8-3-65, Cl. 166-33.
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- Holbert, Don R., R. O. Perry, and J. L. Boyd, to Sinclair Research, Inc. Method for treating wells. 3,175,612, 3-30-65, Cl. 166-33.
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- Holbrook, Edward L., Valve assembly of interchangeable parts. 3,202,170, 8-24-65, Cl. 137-269.
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- Holliday, Stanley R. System for combustion engine. 3,204,621, 9-7-65, Cl. 123-119.
- Holliday, Warren G., to Brown Oil Tools, Inc. Pipe cleaning machine. 3,210,788, 10-12-65, Cl. 15-88.
- Hollifield, Lawrence R. Filling device. 3,191,644, 6-29-65, Cl. 141-302.
- Hollings, John S., and G. W. Moore, to Rolls-Royce and Associates Ltd. Valve assembly. 3,175,576, 3-30-65, Cl. 187-510.
- Hollingsworth, Albert A., to Woodward Iron Co. Pipe joint packing. 3,222,076, 12-7-65, Cl. 277-34.
- Hollingsworth, Clinton A., and J. J. Lewis, to The Borden Co. Method of agglomerating phosphate material. 3,189,433, 6-15-65, Cl. 71-37.

- Hollingsworth, Ernest H., to Aluminum Co. of America. Surface treatment of aluminum base alloys and resulting product. 3,180,808, 4-27-65, Cl. 204-29.
- Hollingsworth, Henry L., and V. H. Lausen; said Hollingsworth assor. to Phelps Dodge Copper Products Corp. High-speed production of magnet wire. 3,181,326, 5-4-65, Cl. 72-46.
- Hollingsworth, James W., and M. R. Horton, to Radio Corp. of America. Indirectly heated cathode. 3,225,246, 12-21-65, Cl. 313-270.
- Hollingsworth, John H.: See—
- Hughes, Robert L., Hollingsworth, and Garside. 3,221,730.
- Hollingsworth, R. Lee. Washing machines for dishes, tableware and the like, and fluid valve controls therefor. 3,177,880, 4-13-65, Cl. 134-58.
- Hollingsworth, R. Lee. Air-land-sea-space transportation craft. 3,193,214, 7-6-65, Cl. 244-12.
- Hollingsworth, Robert R., to Probe and Develop, Inc. Carrying and storage case for reel of film or the like. 3,169,682, 2-16-65, Cl. 224-45.
- Hollins College Corp.: See—
- Steinhardt, Ralph G., Jr. 3,195,620.
- Hollis, Peter H.: See—
- Gurney, William A., Stubbs, and Hollis. 3,168,367.
- Hollis, Clinton R., to International Paper Co. Bag closure. 3,194,481, 7-13-65, Cl. 229-62.
- Hollis, Clinton R., and R. O. Baxter, to International Paper Co. Valve bag. 3,187,984, 6-8-65, Cl. 229-62.5.
- Hollis, Frank, Jr., and B. Borders, to General Foods Corp. Process for preparing dehydrated potatoes. 3,220,857, 11-30-65, Cl. 99-207.
- Holla Heels Ltd.: See—
- Fowell, Peter H. 3,196,560.
- Hollis, Hubert B. Motor speed control apparatus for steel slitting machine. 3,185,908, 5-25-65, Cl. 318-6.
- Hollis, Jack L., to The Firestone Tire & Rubber Co. Tire machine. 3,196,066, 7-20-65, Cl. 156-405.
- Hollis, John C., to Giddings & Lewis Machine Tool Co. Controls for machine tools. 3,200,921, 8-17-65, Cl. 192-142.
- Hollis, Raymond, and E. E. Scheibe, to Graymills Corp. Portable pump assembly. 3,199,745, 8-10-65, Cl. 222-324.
- Hollis, Wilmer B., to Starton Corp. Performance testing device and method for internal combustion engines. 3,186,218, 6-1-65, Cl. 73-116.
- Hollister, Allen R.: See—
- Whitney, Charles A., Hollister, and Tatro. 3,213,671.
- Hollister, Allen R., to Pratt & Whitney Inc. Fluid gage adjusting unit. 3,182,488, 5-11-65, Cl. 73-37.5.
- Hollister, Allen R., and W. J. Blacklock, to Pratt & Whitney, Inc. Noncontacting fluid gage. 3,174,328, 3-23-65, Cl. 73-37.7.
- Hollister, Edwin S., to General Electric Co. Adjusting screw spring clip. 3,183,738, 5-18-65, Cl. 74-526.
- Hollister, Inc.: See—
- Landau, William L., and Burkholder. 3,205,151.
- Schneider, John D., and Nolan. 3,190,293.
- Hollmann, Fritz, to Fritz Driescher Spezialfabrik fur Elektrizitatswerksbedarf. High-voltage multiphase circuit breaker with arc quenching chambers. 3,218,423, 11-16-65, Cl. 200-149.
- Hollmann, Fritz, and H. Emmerich, to Fritz Driescher Spezialfabrik fur Elektrizitatswerksbedarf. Cartridge fuse. 3,166,656, 1-19-65, Cl. 200-120.
- Hollmann, Fritz, and H. Emmerich, to Fritz Driescher Spezialfabrik fur Elektrizitatswerksbedarf. Fuse cartridge. 3,196,521, 7-27-65, Cl. 29-155.5.
- Hollmann, Hans E., to Dresser Industries, Inc. Devices for minimizing the effects of friction. 3,167,958, 2-2-65, Cl. 73-231.
- Hollmann, Hans E., to Dresser Industries, Inc. Servo type integrator with means for minimizing the effects of friction. 3,201,669, 8-17-65, Cl. 318-30.
- Hollmann, Julius Z.: See—
- Cacossa, Frank G., and Hollmann. 3,216,888.
- Hollmann, Walter G., to The Frederick Post Co. Production of encapsulated light-sensitive diazo-type compositions and coatings. 3,202,510, 8-24-65, Cl. 96-75.
- Holloman, William H. Releasable connector for connecting structural elements in buildings, furniture and other articles. 3,196,993, 7-27-65, Cl. 189-36.
- Holloway, Don C., to Hough Mfg. Corp. Acoustic type folding door. 3,223,147, 12-14-65, Cl. 160-84.
- Holloway, James A., C. R. Johnson, and J. R. Nevins. Combination tackle box and seat. 3,206,266, 9-14-65, Cl. 312-216.
- Holloway, Joe S. Flame thrower for cultivating purposes. 3,164,927, 1-12-65, Cl. 47-144.
- Holloway, Kenneth D.: See—
- Reynolds, James E., and Holloway. 3,183,130.
- Holloway, Kenneth J., G. W. C. Taylor, and A. T. Thomas, to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Manufacture of dextrinated lead azide. 3,173,818, 3-16-65, Cl. 149-35.
- Holloway, Paul W.: See—
- Baker, Chester L., and Holloway. 3,208,822.
- Holloway, Robert E.: See—
- Norton, James A., and Holloway. 3,226,251.
- Holloway, Robert L., to American Machine & Foundry Co. Differential drive. 3,169,597, 2-16-65, Cl. 180-76.
- Holloway, Robert L., to American Machine & Foundry Co. Air cushion vehicle. 3,209,848, 10-5-65, Cl. 180-7.
- Holloway, Robert L., and A. E. Levendoski, to American Machine & Foundry Co. Friction welding. 3,185,368, 5-25-65, Cl. 228-2.
- Holloway, Robert L., and J. A. Grom, to American Machine & Foundry Co. Machine for building a tread on pneumatic tires. 3,223,572, 12-14-65, Cl. 156-394.
- Holloway, Thomas M.: See—
- Chapman, William P., and Holloway. 3,216,252.
- Holloway, Thomas M., to Johnson Service Co. Pneumatic relays. 3,166,085, 1-19-65, Cl. 137-82.
- Holloway, Thomas M., to Johnson Service Co. Heat transfer meters. 3,216,248, 11-9-65, Cl. 73-193.
- Holloway, Thomas M., and J. E. Fleckenstein, to Johnson Service Co. Controls for combination heating and cooling systems. 3,226,024, 12-28-65, Cl. 236-1.
- Hollowell, Joseph L., to E. I. du Pont de Nemours and Co. Crosslapping method and apparatus. 3,183,557, 5-18-65, Cl. 19-163.
- Hollub, Jean, B. Lange, and A. Maeder, to Ciba Ltd. Setting lotion for hair. 3,206,362, 9-14-65, Cl. 167-87.1.
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- Irvine, James M., Jr. 3,164,083.
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- Holly, Sterling R.: See—
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- Hollyday, James H., to Sperry Rand Corp. Hitch. 3,181,892, 5-4-65, Cl. 280-477.
- Hollyday, James H., to Sperry Rand Corp. Trip device. 3,193,443, 7-20-65, Cl. 100-4.
- Hollyday, Joseph S., to Heinemann Electric Co. Circuit breaker having an improved linkage. 3,193,643, 7-6-65, Cl. 200-106.
- Hollyday, Joseph S., to Heinemann Electric Co. Electromagnetic circuit for circuit breakers. 3,193,736, 7-6-65, Cl. 317-177.
- Hollymatic Corp.: See—
- Fetzer, Frederick. 3,222,935.
- Hollyoak, William H., to The Proprietors of Hay's Wharf Ltd. Dredge with nozzle means for mixing air and water before emission thereof from said nozzle. 3,187,447, 6-8-65, Cl. 37-78.
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- Paglusio, Robert J. 3,208,711.
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- Holm, Donald R., and W. D. Wallace, to W. H. Miner, Inc. Draft gear. 3,202,300, 8-24-65, Cl. 213-22.
- Holm, LeRoy W.: See—
- Csaszar, Albert K., and Holm. 3,175,609.
- Holm, LeRoy W., to Union Oil Co. of California. Solvent flood oil recovery method. 3,220,473, 11-30-65, Cl. 166-9.
- Holm, LeRoy W., to Union Oil Co. of California. Olefin and/or aromatic miscible slug secondary recovery process. 3,220,474, 11-30-65, Cl. 166-9.
- Holm, LeRoy W., and A. K. Csaszar, to The Pure Oil Co. Secondary recovery process using gas-liquid drive fluids. 3,177,939, 4-13-65, Cl. 166-9.
- Holm, Luther E., to Holm's Mfg. Co. Head and knee rest operating drives for hospital beds and the like. 3,191,196, 6-20-65, Cl. 5-68.
- Holm, Melvin M. Xylene isomerization with hydrogenation. Re. 25,753, 4-6-65, Cl. 260-668.
- Holm, Torkil O., to Kefalas A/S. Dihydroanthracene compounds. 3,177,209, 4-6-65, Cl. 260-240.
- Holm, Torkil O., to Kefalas A/S. Method of producing 9,10-dihydroanthracenes. 3,190,893, 6-22-65, Cl. 260-351.
- Holm, Torkil O., to Kefalas A/S. Method of producing di-benzo [a,d] cyclohepta [1,4] dienes. 3,215,739, 11-2-65, Cl. 260-570.8.
- Holm, Vernon C. F., and D. M. Blackburn, to Phillips Petroleum Co. Supported olefin conversion catalysts. 3,211,801, 10-12-65, Cl. 260-683.2.
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- Holman, David R.: See—
- Holman, James O. 3,168,118.
- Holman, Gordon E. Cabinets. 3,210,402, 11-23-65, Cl. 312-209.
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- Holman, Howard E., J. H. Hearne, and M. C. Korinke, to The Wurlitzer Co. Rhythm device. 3,207,835, 9-21-65, Cl. 84-103.
- Holman, James O., to D. R. Holman. Wire twisting device. 3,168,118, 2-2-65, Cl. 140-118.
- Holman, John L. M., to The Trane Co. Heat exchanger. 3,212,570, 10-19-65, Cl. 165-162.
- Holman, Keith L., to United States Steel Corp. Adjustable side stake. 3,225,708, 12-28-65, Cl. 105-380.
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- Holman, Rudolph G., to W. J. Volt Rubber Corp. Method of building a tread on pneumatic tires. 3,177,918, 4-13-65, Cl. 152-330.
- Holman, Rudolph G. Machine for winding a ball. 3,224,690, 12-21-65, Cl. 242-3.

- Holman, Willis E.: See—
- Patton, John T., and Holman. 3,205,526.
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- Holmberg, John C.: See—
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- Holmen, Reynold E., to Minnesota Mining and Mfg. Co. Photosensitive materials comprising diazonium salts of bisphenol esters. 3,169,864, 2-16-65, Cl. 96-75.
- Holmes, Alfred, to Birfield Engineering Ltd. Machine tools. 3,209,627, 10-5-65, Cl. 82-27.
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- Holmes Electric Protective Co.: See—
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- Holmes, Gene C. Means for controlling flight of a helicopter or autogiro. 3,171,614, 3-2-65, Cl. 244-17.19.
- Holmes, George S., to Continental Can Co., Inc. Bottle carrier with double high center cell. 3,166,213, 1-19-65, Cl. 220-115.
- Holmes, George S., to Continental Can Co., Inc. Full depth partition bottle carrier. 3,187,938, 6-8-65, Cl. 220-113.
- Holmes, Horace D. Locknut and stud device. 3,208,493, 9-25-65, Cl. 151-8.
- Holmes, Jack H., to The James C. Helntz Co. Collapsible tire retreading rim. 3,207,649, 9-21-65, Cl. 156-417.
- Holmes, Lambert, to Standard Machine & Mfg. Co. Fluid mixing device. 3,166,086, 1-19-65, Cl. 137-217.
- Holmes, Marlon B., and A. G. Bossert, Jr., deceased (by M. A. Bossert, executrix). Crimping tool. 3,199,334, 8-10-65, Cl. 72-410.
- Holmes, Marlon B., and A. G. Bossert, Jr., deceased (by M. A. Bossert, administratrix). Crimping tool. 3,199,335, 8-10-65, Cl. 72-410.
- Holmes, Marjorie V.: See—
- Holmes, William V. 3,169,771.
- Holmes, Peter D.: See—
- Bourne, Kenneth H., and Holmes. 3,215,751.
- Pickethly, Robert C., and Holmes. 3,215,640.
- Holmes, Phyllis A.: See—
- Holmes, William V. 3,169,771.
- Holmes, Raynor M., to Riegel Paper Corp. Egg carton or the like. 3,179,324, 4-20-65, Cl. 229-28.
- Holmes, Raynor M., to Riegel Paper Corp. Top opening ice cream carton. 3,197,114, 7-27-65, Cl. 229-51.
- Holmes, Raynor M., to Riegel Paper Corp. Cellular carton. 3,206,097, 9-14-65, Cl. 229-28.
- Holmes, Raynor M., to Riegel Paper Corp. Sealed end ice cream carton. 3,206,101, 9-14-65, Cl. 229-51.
- Holmes, Raynor M., to Riegel Paper Corp. Leakproof carton. 3,219,255, 11-23-65, Cl. 229-49.
- Holmes, Robert R., to United Aircraft Corp. Liquid metal probe. 3,183,715, 5-18-65, Cl. 73-304.
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- Holmes, Sterling W. Globe valve adapter. 3,176,705, 4-6-65, Cl. 137-269.
- Holmes, Theodore R., and R. J. Musel, to Burroughs Wellcome & Co. (U.S.A.) Inc. Dispenser. 3,207,374, 9-21-65, Cl. 222-80.
- Holmes, Thomas H., and O. A. Itrila, to Texaco Inc. Acoustical well logging tool. 3,205,970, 9-14-65, Cl. 181-5.
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- Holmes, Trent H., to United Aircraft Corp. Step function thrust control. 3,204,402, 9-7-65, Cl. 60-35.6.
- Holmes, Trent H., and C. A. Glenn, to United Aircraft Corp. Thrust control. 3,168,809, 2-9-65, Cl. 60-35.6.
- Holmes, William V., to M. V. and P. A. Holmes. Tethered ball and means to mark ball impact area on club head. 3,169,771, 2-16-65, Cl. 273-186.
- Holmgren, Carl R., and W. G. Bearden, to Pan American Petroleum Corp. Low temperature cementing composition. 3,179,528, 4-20-65, Cl. 106-90.
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- Holmgren, Marvin E., to Imperial-Eastman Corp. Hose coupling. 3,177,016, 4-6-65, Cl. 285-247.
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- Holmstrom, John G., to Pacific Car and Foundry Co. Vehicle spring suspension employing torsion spring mechanism. 3,183,018, 5-11-65, Cl. 280-104.5.
- Holmstrom, John G., to Pacific Car and Foundry Co. Automotive vehicle having means for making active or inactive at will both driving propeller shaft and planetary reduction final drive. 3,221,832, 12-7-65, Cl. 180-44.
- Holmstrom, Kjell I. Container. 3,190,531, 6-22-65, Cl. 229-7.
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- Holper, Frank, to Molon Motor & Coil Corp. Multiple rotor induction motor unit. 3,168,665, 2-2-65, Cl. 310-112.
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- Holsman, Henry T. Bead for plaster, stucco, and the like. 3,175,330, 3-30-65, Cl. 50-165.
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- Holstein, Alvin W., C. B. Adams, and C. D. Visco, to Universal Match Corp. Vending machine. 3,167,215, 1-28-65, Cl. 221-6.
- Holstein, Alvin W., H. H. Pryor, and R. D. Stayton, to Universal Match Corp. Article dispenser with superposed reserve supply. 3,190,488, 6-22-65, Cl. 221-11.
- Holstein, John H. Label applying apparatus. 3,206,347, 9-14-65, Cl. 156-478.
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- Plock, Karl, Quest, Flakamp, and Eisenreich. 3,196,842.
- Holstein, Raymond F. Movable carts and the like. 3,224,790, 12-21-65, Cl. 280-47.37.
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- Holt, Arthur W., to Control Data Corp. Photomultiplier with stabilized gain. 3,171,032, 2-23-65, Cl. 250-207.
- Holt, Arthur W., to Control Data Corp. Core correlation matrix reader. 3,184,712, 5-18-65, Cl. 340-146.3.
- Holt, Arthur W., to Control Data Corp. Reading machine with time-spatial data extraction. 3,193,799, 7-6-65, Cl. 340-146.3.
- Holt, Arthur W. J. D. Hill, and H. Hironaka, to Control Data Corp. Sequential scan system having parallel to serial conversion. 3,164,805, 1-5-65, Cl. 340-146.3.
- Holt, Clarence B., deceased (D. E. Holt, Jr., and M. J. Holt, executors), to Holt Specialty Co. Oil well cementing process and apparatus therefor. 3,205,945, 9-14-65, Cl. 166-23.
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- Holt, Douglas E., A. V. Kore, and M. Dechantsreiter, to Harnischfeger Corp. Shipboard cargo transferring apparatus. 3,180,456, 6-22-65, Cl. 212-14.
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- Holt, Drew S., and N. P. Worden, to C. M. Hall Lamp Co. Mirror retaining means and method of assembly. 3,171,886, 3-2-65, Cl. 88-96.
- Holt, Eugene L., and B. L. Tarmy, to Esso Research and Engineering Co. Electrolytic redox process for chemical production. 3,214,357, 10-26-65, Cl. 204-80.
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- Holt, Francis R., to Radio Corp. of America. Dynamic limiter for stereophonic broadcast receiver. 3,178,514, 4-13-65, Cl. 179-15.
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- Holt, Frederick W., Jr., J. F. Byrne, and R. B. Reif, to The Brown-Bridge Mills, Inc. Non-curling gummed paper. 3,202,539, 8-24-65, Cl. 117-122.
- Holt, Harley R., to Ray-Wayland Corp. Pump. 3,195,808, 7-20-65, Cl. 230-160.
- Holt, Herbert B. W., and P. D. Saw, to Tyer and Co. Ltd. Instrument for the sensing of temperature. 3,164,755, 1-5-65, Cl. 317-153.
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- Holt, John M., and E. S. Szekeres, to United States Steel Corp. Torsion testing device. 3,212,326, 10-19-65, Cl. 73-99.
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- Holt, Richard E.: See—Schmidt, Lewis W. 3,215,588.
- Holt, Ronald, to Battle Creek Packaging Machines, Inc. Bread slicing machine. 3,208,321, 9-28-65, Cl. 83-201.11.
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- Holter Research Foundation, Inc.: See—Holter, Norman J., and Glasscock. 3,215,136.
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- Horn, Lutz, and F. Philipp, to Varta Aktiengesellschaft. Compressed electrode assembly and process for making the same. 3,178,314, 4-13-65, Cl. 136-21.
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- Horn, Lutz, F. Philipp, S. Dieckfeldt, and R. Dieberg, to Accumulatoren-Fabrik Aktiengesellschaft. Method of making active mass for positive electrodes for alkaline accumulators. 3,214,297, 10-26-65, Cl. 136-29.
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- Horne, Donald S., R. Ashton, and L. L. Kepkay, to Massey-Ferguson Ltd. Drive assembly for self-propelled combine. 3,175,425, 3-30-65, Cl. 74-745.
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- Horne, George B., to Watts Regulator Co. Thermostat. 3,180,150, 4-27-65, Cl. 73-368.1.
- Horne, George H., and M. Ludwig, to California Research Corp. Pipeline heating system. 3,191,671, 6-29-65, Cl. 165-84.
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- Horne, Walter B., to United States of America, National Aeronautics and Space Administration. Aircraft wheel spray drag alleviator. 3,169,001, 2-9-65, Cl. 244-103.
- Horner, Alan A., and F. R. Edwards, to Canada Packers Ltd. Purification of heparin. 3,179,566, 4-20-65, Cl. 167-74.
- Horner, Charles R., and W. F. Gray, to United States of America, Navy. Case for phosphor glass dosimeter. 3,169,188, 2-9-65, Cl. 250-83.
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- Horstman, Anton J., to The Bauer Bros. Co. Disc type refiner unit having plug wiper. 3,219,282, 11-23-65, Cl. 241-38.
- Horstman, Harold R., to United States of America, Atomic Energy Commission. Polytrifluorocarbon adhesive comprising an aliphatic carboxymethylacrylate copolymer reacted with an epoxy and a polyamino-polyamide resin. 3,211,602, 10-12-65, Cl. 156-330.
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- Horton, Billy M. Fluid scalars. 3,226,023, 12-29-65, Cl. 235-201.
- Horton, Billy M., and R. E. Bowles. Fluid oscillator. 3,185,166, 5-25-65, Cl. 137-81.5.
- Horton, Charles L. Loom crank shaft gearing. 3,175,419, 3-30-65, Cl. 74-448.
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- Houser, John E., to The Fairchild Engineering Co. Method and apparatus for conveying objects. 3,224,565, 12-21-65, Cl. 198-190.
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- Howard, Frank A., deceased: I. A. Howard and F. A. Howard, Jr., and The Chase Manhattan Bank, executors. Safety tire. 3,219,092, 11-23-65, Cl. 152-340.

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- Howlett, Edward J. Apparatus for driving continuous webs of textile material. 3,178,831, 4-20-65, Cl. 34-86.
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- Howley, Walter N., Jr., and F. Leto, to Goodyear Aerospace Corp. Loom apparatus for weaving contoured thread connected dual wall inflatable fabric. 3,217,751, 11-16-65, Cl. 139-20.
- Howne, Herbert, to Dialight Corp. Luminous devices. 3,210,876, 10-12-65, Cl. 40-130.
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- Hoyer, Wilmer A., and D. H. Britton, to Esso Production Research Co. Radioactive well logging system with surface circuit designed to isolate A.C. power signals from logging signals. 3,204,098, 8-31-65, Cl. 250-83.3.
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- Hoyle, James E. Watercraft. 3,186,370, 6-1-65, Cl. 114-66.5.
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- Hoyt, Deryl R., to Clark Equipment Co. Steering mode selection and wheel synchronization system. 3,185,245, 5-25-65, Cl. 180-79.2.
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- Hruby, John O., Jr., to Rain Jet Corp. Ornamental water fountains. 3,175,767, 3-30-65, Cl. 239-17.
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- Hsieh, Henry L., to Phillips Petroleum Co. Method of terminating butadiene polymerization. 3,203,944, 8-31-65, Cl. 260-94.3.
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- Hsieh, Henry L., to Phillips Petroleum Co. Shortstopping organometallic-type butadiene polymerization with aziridinyl phosphine oxides or sulfides. 3,213,074, 10-19-65, Cl. 260-94.3.
- Hsieh, Henry L., and R. C. Wheat, to Phillips Petroleum Co. Plasticized curing of polymers olefin-type containing terminal epoxy and hydroxy groups. 3,190,848, 6-22-65, Cl. 260-30.4.
- Hsieh, Henry L., and C. W. Strobel, to Phillips Petroleum Co. Shortstopping organometallic polymerized butadiene with an oxirene compound or anhydride. 3,218,306, 11-16-65, Cl. 260-94.3.
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- Layne, Gilbert S., and Huml. 3,198,627.
- Layne, Gilbert S., and Huml. 3,198,628.
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- Hummel, Dietmar: See—
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- Hummel, Floyd A., to Corning Glass Works. Ceramic bodies and their production. 3,169,072, 2-9-65, Cl. 106-39.
- Hummel, Frederick S., to Atomic Energy of Canada Ltd. Nuclear reactor fuelling machine. 3,169,647, 2-16-65, Cl. 214-23.
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- Hummel, Frederick S., to Atomic Energy of Canada Ltd. Nuclear reactor fuelling machine. 3,169,910, 2-16-65, Cl. 176-31.
- Hummel, Harry J.: See—
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- Hummel, John P.: See—
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- Hummel, Max. Apparatus for mounting of antennas on boats. 3,224,003, 12-14-65, Cl. 343-709.
- Hummel, Raymond J., to H & H Plastics Mfg. Co. Plastic bib construction. 3,221,341, 12-7-65, Cl. 2-49.
- Hummel, Richard L. Means for increasing the heat transfer coefficient between a wall and boiling liquid. 3,207,209, 9-21-65, Cl. 165-1.
- Hummel, Robert J., T. D. Rembert, and H. L. Dennis, to Houdaille Industries, Inc. Apparatus for manufacturing pre-tensioned reinforced concrete slabs. 3,224,064, 12-21-65, Cl. 25-41.
- Hummel, Wiley M., to General Electric Co. Adjustable contact spacing for differential switch. 3,210,503, 10-5-65, Cl. 200-139.
- Hummel, Wiley M., to General Electric Co. Electrical device. 3,210,714, 10-5-65, Cl. 338-301.
- Hummell, John D.: See—
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- Hummer, Ralph G., to Folding Carrier Corp. Division of Union Asbestos & Rubber Co. Baby seats for telescoping grocery carts. 3,184,248, 5-18-65, Cl. 280-33.99.
- Humpherys, Allan S., to United States of America, Agriculture. Sinking float-operated irrigation gate. 3,208,225, 9-28-65, Cl. 61-25.
- Humpherys, Allan S., and J. A. Bondurant, to United States of America, Agriculture. Automatic irrigation gate. 3,217,497, 11-16-65, Cl. 61-25.
- Humpherys, Bernarr H., to United States of America, Navy. IFF system defruiter modification. 3,171,122, 2-23-65, Cl. 343-6.5.
- Humpherys, Bernarr H. IFF system defruiter. 3,182,310, 5-4-65, Cl. 343-6.5.
- Humpherys, Bernarr H., to United States of America, Navy. Decoder-readout and degarbler. 3,188,629, 6-8-65, Cl. 343-6.5.
- Humpherys, Bernarr H., to United States of America, Navy. Delay line synchronizer. 3,226,716, 12-28-65, Cl. 343-6.5.
- Humphreys, Wilbert J., G. M. Haist, and J. R. King, to Eastman Kodak Co. Thiosugar silver halide solubilizing agents. 3,220,838, 11-30-65, Cl. 96-29.
- Humphrey, Delby C. Basketball goal. 3,194,555, 7-13-65, Cl. 273-1.5.
- Humphrey, Howard C., to Texaco Inc. Weighted drill collar. 3,167,137, 1-26-65, Cl. 175-320.
- Humphrey, John F.: See—
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- Humphrey, John G., to General Electric Co. Automatic gain control circuit with optimum delayed and amplified A.G.C. for R.F. stage. 3,192,316, 6-29-65, Cl. 178-7.3.
- Humphrey, John H., to Dashew Business Machines, Inc. Data transmitting and recording device and system. 3,187,834, 6-1-65, Cl. 346-34.
- Humphrey, Leslie F., M. C. Chapman, and W. D. Weatherup, to Reed Paper Group Ltd. Lined container. 3,206,094, 9-14-65, Cl. 229-14.
- Humphrey, Paul E. Gimbal-less rate gyro. 3,194,079, 7-13-65, Cl. 74-5.6.
- Humphrey Products Division General Gas Light Co.: See—
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- Humphrey, Robert P., to General Gas Light Co. Mechanical energy transducing device. 3,173,378, 3-16-65, Cl. 103-174.
- Humphrey, Troy G.: See—
Engel, William N., Cockran, and Humphrey. 3,192,715.
- Humphrey, Warren A.: See—
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- Humphrey, Warren A., to The Hoover Co. Suction cleaners. 3,212,119, 10-19-65, Cl. 16-391.
- Humphrey, Watts S., Jr.: See—
Terzian, John, Humphrey, and Bosch. 3,210,733.
- Humphrey, Watts S., Jr., to Sylvania Electric Products, Inc. Method and apparatus for testing marginal failure of electronic systems. 3,168,697, 2-2-65, Cl. 324-73.
- Humphreys, Donald M., to Ex-Cell-O Corp. Magnetic recording. 3,171,136, 2-23-65, Cl. 348-74.
- Humphreys, John W., to Johnson Products, Inc. Crankcase ventilation system. 3,189,012, 6-15-65, Cl. 123-119.
- Humphreys, Kenneth K., to United States Steel Corp. Method and apparatus for determining coke strength. 3,184,952, 5-25-65, Cl. 73-12.
- Humphreys, Thomas W., J. R. Wagner, and D. F. Hinkley, to Merck & Co., Inc. Meat curing process and composition thereof. 3,201,262, 8-17-65, Cl. 99-222.
- Humphreys, Thomas W., and D. F. Hinkley, to Merck & Co., Inc. Meat curing process and composition thereof. 3,201,263, 8-17-65, Cl. 99-222.
- Humphries, John B., to The Excelsior Hardware Co. Latch for luggage and like cases. 3,188,839, 6-15-65, Cl. 70-70.
- Humphries, L. Lee: See—
Branning, George G. 3,207,253.
- Humphries, Richard L.: See—
Stenger, Richard C., and Humphries. 3,206,098.
- Hunckler, Paul J. Parts storage and merchandising device. 3,220,788, 11-30-65, Cl. 312-234.1.
- Hundley, Delmar D. Tractor tester. 3,180,138, 4-27-65, Cl. 73-117.
- Hundley, John G.: See—
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- Hundley, John G., to Standard Oil Co. Continuous oxidation process for production of benzoic acid. 3,187,038, 6-1-65, Cl. 260-524.
- Hundstad, Richard L.: See—
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- Hundstad, Richard L., to Westinghouse Electric Corp. Magneto-hydrodynamic generator. 3,211,932, 10-12-65, Cl. 310-11.
- Hundt, Donald D., and E. W. Merrill, to W. R. Grace & Co. Method of making a bottle closure. 3,220,907, 11-30-65, Cl. 156-245.

Hunegs, James, to The Gillette Co. Dispensing container with contents indicator. 3,185,345, 5-25-65, Cl. 222-45.

Hunerwadel, Jean L.: See—
Vess, Albert, Phipps, and Hunerwadel. 3,183,814.

Hunger, Alfred: See—
Hoffmann, Karl, and Hunger. 3,178,425.

Hunger, Alfred, J. Kehrle, A. Rossi, and K. Hoffmann, to Ciba Corp. 1-(β -dimethylamino-ethyl)-2-(p-ethoxy-benzyl)-5,6-dichloro-benzimidazoles. 3,221,022, 11-30-65, Cl. 260-309.2.

Hunger, Helen R.: See—
Kolts, Donald, and Hunger. 3,222,783.

Hunger, Helen R., and D. Kolts. Reminder device. 3,207,421, 9-21-65, Cl. 229-72.

Hunger, Helmut. Adapter lamp for use with underwater television cameras. 3,220,327, 11-30-65, Cl. 95-11.5.

Hunger, Richard H., P. H. Spennetta, T. G. Campbell, and M. M. Coker, to Caterpillar Tractor Co. Hydraulic system for a universal bucket of a tractor mounted loader. 3,211,065, 10-12-65, Cl. 91-412.

Hungerford, Ernest T., to Shell Oil Co. Electromagnetic well surveying method and apparatus for obtaining both a dip and conductivity anisotropy of a formation. 3,187,252, 6-1-65, Cl. 324-6.

Hungerford & Terry, Inc.: See—
Fackler, Richard B., and Davis. 3,167,506.

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Hunke & Jochem: See—
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Hunkeler, Ernst J., to The Gleason Works. Gear generator. 3,192,831, 7-6-65, Cl. 90-5.

Hunking, Sidney H.: See—
Cheetham, George T., Hunking, and Dolly. 3,196,514.

Hunnebeck, Emil M. Device for installing and removing truss frames, girders, and the like. 3,209,508, 10-5-65, Cl. 52-632.

Hunsaker, Rollo N., and S. E. Johansson, to Kennecott Copper Corp. Apparatus for preventing premature shifting of gears. 3,169,616, 2-16-65, Cl. 192-4.

Hunstiger, Francis, to Harris-Intertype Corp. Electrophotographic apparatus. 3,223,008, 12-14-65, Cl. 95-1.7.

Hunt, A. H., (Capacitors) Ltd.: See—
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Hunt, Charles A., and L. E. Schoonmaker, to The Sessions Clock Co. Adjustable cycle percentage timer. 3,185,874, 5-25-65, Cl. 310-69.

Hunt, Charles d'A., to Temescal Metallurgical Corp. High vacuum observation apparatus. 3,170,383, 2-28-65, Cl. 98-1.

Hunt, Charles d'A., and H. R. Smith, Jr., to Temescal Metallurgical Corp. Method of purifying refractory sulfides. 3,199,947, 8-10-65, Cl. 23-14.5.

Hunt, Charles F.: See—
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Lavin, Edward, Markhart, and Hunt. 3,220,882.

Hunt, Charles J.: See—
Halverstadt, Robert D., Stewart, and Hunt. 3,216,854.
Heggs, Kenneth, and Hunt. 3,196,471.

Hunt, Charles J., to Vulcan Corp. Shoe last construction. 3,181,186, 5-4-65, Cl. 12-136.

Hunt, Charles J., and E. R. Swanson, to Beattie-Coleman, Inc. Roll film magazine. 3,223,011, 12-14-65, Cl. 95-34.

Hunt, Charles R., and H. Stewart. Process for making cores and molds, articles made thereby and binder compositions therefor. 3,203,057, 8-31-65, Cl. 22-193.

Hunt, Charles W., to Industrial Coal and Minerals Ltd. Impact mill. 3,173,620, 3-16-65, Cl. 241-284.

Hunt, David A., to United States of America, Atomic Energy Commission. Membrane double wall interconnected pressure vessel. 3,191,792, 6-29-65, Cl. 220-3.

Hunt, Earl R.: See—
Weiss, Robert L., and Hunt. 3,192,549.

Hunt, Edgar G.: See—
Tyler, Stanley R., Hunt, and Bootle. 3,168,102.

Hunt Electronics Co.: See—
Hoff, Frederick B., Jr., and Hutson. 3,188,490.
Hutson, Jearld L. 3,188,487.
Hutson, Jearld L. 3,210,571.
Hutson, Jearld L. 3,210,641.

Hunt, Elton B., to Pan American Petroleum Corp. Bottom-hole catalytic heater using heat transfer liquid. 3,223,081, 12-14-65, Cl. 126-360.

Hunt, Elton B., and H. Grekel, to Pan American Petroleum Corp. Method of controlled catalytic heating of a sub-surface formation. 3,223,166, 12-14-65, Cl. 166-38.

Hunt Foods and Industries, Inc.: See—
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Haller, Belmont L. 3,177,912.
Haller, Belmont L., and Waters. 3,167,169.

Hunt, Frederick V., Flint. 3,164,447, 1-5-65, Cl. 29-193.

Hunt, Geoffrey H., to Minister of Aviation, in her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Oscillating gyroscopic device. 3,191,443, 6-29-65, Cl. 73-505.

Hunt, George D., to The Ohio Thermometer Co. Direct reading psychrometer. 3,174,339, 3-23-65, Cl. 73-338.

Hunt, Guilbert M., to Bonnar-Vawter Inc. Machine for making a coded record from a composite business form. 3,196,448, 7-20-65, Cl. 346-24.

Hunt, Harold R. Frame and wheel suspension arrangement for self-propelled plant sprayer. 3,179,194, 4-20-65, Cl. 180-1.

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Hunt, Heman D., to E. I. du Pont de Nemours and Co. Radiation-sensitive emulsions and elements and their preparation. 3,189,456, 6-15-65, Cl. 96-102.

Hunt, Howard S.: See—
Miller, Austin V., Hunt, and Thompson. 3,199,826.

Hunt, Jack W.: See—
Glover, Harold G., Hunt, and Kenyon. 3,218,252.

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Hunt, John M., to General Precision, Inc. Magneto-resistive device. 3,172,032, 3-2-65, Cl. 323-66.

Hunt, Mack W., to Continental Oil Co. Preparation of diborane. 3,185,547, 5-25-65, Cl. 23-204.

Hunt, Mack W., to Continental Oil Co. Preparation of alpha-olefins from aluminum alkoxides. 3,217,058, 11-9-65, Cl. 260-682.

Hunt, Mack W., L. M. Carter, and R. M. Tillman, to Continental Oil Co. Manufacture of diborane. 3,219,412, 11-23-65, Cl. 23-204.

Hunt, Paul R., and C. DuBois, to Outboard Marine Corp. Thermostatic choke valve. 3,210,004, 10-5-65, Cl. 236-101.

Hunt, Paulmer D., and J. R. Goerke, to The Bendix Corp. Compensated flyweight. 3,181,372, 5-4-65, Cl. 73-497.

Hunt, Philip M., to Orbit Industries, Inc. Telephone isolation device. 3,183,309, 5-11-65, Cl. 179-35.

Hunt, Richard H., and D. E. Nagy, to American Cyanamid Co. Poly(methylolacrylamides). 3,214,420, 10-26-65, Cl. 260-89.7.

Hunt, Robert A., to Xerox Corp. Record card feeding apparatus. 3,180,637, 4-27-65, Cl. 271-54.

Hunt, Robert A., to Xerox Corp. Xerographic developing apparatus. 3,190,264, 6-22-65, Cl. 118-837.

Hunt, Robert A., to Xerox Corp. Xerographic fusing apparatus. 3,219,326, 11-23-65, Cl. 263-6.

Hunt, Robert E., to Sylvania Electric Products Inc. Semiconductor device and method of manufacture. 3,186,065, 6-1-65, Cl. 29-155.5.

Hunt, Robert E., to Sylvania Electric Products Inc. Apparatus for attaching filamentary material. 3,186,446, 6-1-65, Cl. 140-93.

Hunt, Robert G., to Marco Products Co. Feed means for plumbers' tool. 3,224,024, 12-21-65, Cl. 15-104.3.

Hunt, Robert W.: See—
Scarr, Robert W. A., Aleksander, and Hunt. 3,181,005.

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Hunt, Rodney, Machine Co.: See—
Belcher, Harold H., and Rogers. 3,180,398.
Belcher, Harold H., and Rogers. 3,180,399.

Hunt, Russell G., and M. Fabre. Dispensing arrangement. 3,198,402, 8-3-65, Cl. 222-251.

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Allenden, Dennis, Boddy, Freck, and Hunt. 3,209,151.

Hunt, William A., to Joseph Cook Sons & Co. (1930) Ltd. Transporter means. 3,164,104, 1-5-65, Cl. 104-166.

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Hunt, William R., to General Electric Co. Bearing support and lubrication arrangement for use in a dynamoelectric machine. 3,224,819, 12-21-65, Cl. 308-132.

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Hunter, Donald N., to Artrite Resins Ltd. Inorganic co-polymeric materials and process. 3,179,524, 4-20-65, Cl. 106-39.

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Hurkmans, Jozefus C. 3,221,802.
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Hunter, Frank H., and G. W. Widner, to Esso Production Research Co. Well completion and logging method. 3,193,005, 7-6-65, Cl. 166-4.

Hunter, Henry M., to Hunter Products Corp. Automatic spray mist dispenser. 3,216,618, 11-9-65, Cl. 222-70.

Hunter, Howard B. Game baton. 3,216,727, 11-9-65, Cl. 273-102.

Hunter, Howard B. Puzzle coin bank. 3,218,754, 11-23-65, Cl. 46-2.

Hunter, Ian G.: See—
Woodcock, Edward C., and Hunter. 3,203,311.

Hunter, Jack A.: See—
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Hunter, Jack A., to Martin-Marletta Corp. Zero drift inertial reference. 3,200,510, 8-17-65, Cl. 33-204.

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Hunter, Jonathan, to Litton Systems, Inc. Tape guide for magnetic recorders. 3,223,803, 12-14-65, Cl. 226-197.

Hunter, Joseph L., and A. E. Jensen, to American Metal Climax, Inc. Billet log. 3,177,052, 4-6-65, Cl. 29-187.

Hunter, Larry C., and J. A. Stewart, to General Telephone and Electronics Laboratories, Inc. Echo suppressor. 3,215,789, 11-2-65, Cl. 179-170.6.

Hunter, Lee. Vehicle wheel alignment apparatus. 3,199,208, 8-10-65, Cl. 33-203.18.

Hunter, Lee. Vehicle wheel alignment apparatus. 3,206,862, 9-21-65, Cl. 33-203.18.

Hunter, Lee. Means for centering tire tread to vehicle wheel axis of rotation. 3,207,557, 9-21-65, Cl. 301-5.

Hunter, Lee. Vehicle service rack. 3,216,530, 11-9-65, Cl. 187-8.71.

Hunter, Lloyd P., to International Business Machines Corp. Logical signal processing apparatus. 3,196,284, 7-20-65, Cl. 307-88.5.

Hunter, Milford J. Amphibious vehicle. 3,199,127, 8-10-65, Cl. 9-1.

Hunter, Paul H., to Union Carbide Corp. Blow molded container. 3,198,375, 8-3-65, Cl. 220-60.

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Hunter, Paul H., and R. L. Boysen, to Union Carbide Corp. Container and closure therefor. 3,204,799, 9-7-65, Cl. 215-31.

Hunter Products Corp.: See—
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Hunter, Robert H., to Atlas Chemical Industries, Inc. Purification of hydroxymethyl furfural. 3,201,331, 8-17-65, Cl. 202-39.5.

Hunter, Robert H., and R. S. Damon; said Damon assor. to said Hunter. Thermostatically controlled multiple fuel burner. 3,173,467, 3-16-65, Cl. 158-28.

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Grimes, Arthur S., Hunter, and Tillinghast. 3,211,135.

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Hunting Aircraft Ltd.: See—
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Wright, Peter, and Noyce. 3,218,500.

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Huntington, Morgan G., to Huntington Chemical Corp. Apparatus for the heating of carbonaceous materials by their partial combustion to carbon dioxide. 3,190,245, 6-22-65, Cl. 110-28.

Huntington, Morgan G., to RNB Corp. Self-limiting radiant nuclear boiler and superheater. 3,210,253, 10-5-65, Cl. 176-18.

Huntington, Morgan G., to Huntington Oil Refining Co. Multi-vapor petroleum refining and apparatus thereof. 3,223,616, 12-14-65, Cl. 208-89.

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Huntington, Richard B. Extension telephone system and actuator. 3,217,110, 11-9-65, Cl. 179-81.

Huntington, Robert G., to Carrier Corp. Thermoelectric temperature and humidity control. 3,165,900, 1-19-65, Cl. 62-3.

Huntley, Allan R., and S. T. Synodis, to Esso Research and Engineering Co. Fluidized solids technique. 3,169,835, 2-16-65, Cl. 23-288.

Huntley, Earl B., J. M. Kruse, and J. W. Way, to E. I. du Pont de Nemours and Co. Catalyst compositions consisting of group IV metal salts and/or oxides. 3,184,415, 5-18-65, Cl. 252-461.

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Huntley, Roy A. Composite bow and hand grip for the same. 3,182,651, 5-11-65, Cl. 124-24.

Huntton, James K., and R. B. Riley, to Hewlett-Packard Co. Transmission line apparatus having a non-linear detector element and a direct-coupled line-terminating resistor in close electrical proximity. 3,191,125, 6-22-65, Cl. 329-162.

Huntress, Charles B., and H. Gabriellian, to Electronic Engineering Co. of California. Subminiature sealed thumbwheel switch with indicator and stop means. 3,222,465, 12-7-65, Cl. 200-11.

Huntress, Charles B., and H. Gabriellian, to Electronic Engineering Co. of California. Sealed thumbwheel switch with indicator and removable illuminating means. 3,222,490, 12-7-65, Cl. 200-167.

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Hupfer, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the production of phenylhydrazine hydrochloride. 3,203,989, 8-31-65, Cl. 260-569.

Hupin, Christian A., to Manufacture de Produits Pharmaceutiques A. Christiaens Societe Anonyme. New derivative of gitoxin, the use and preparation thereof. 3,184,383, 5-18-65, Cl. 167-65.

Hupp Corp.: See—
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Grady, George M. 3,164,229.
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Hupp, Robert C. Sectional fluid manifold assembly. 3,219,053, 11-23-65, Cl. 137-269.

Hupp, Ross E. Indexed motion toy. 3,201,127, 8-17-65, Cl. 273-109.

Huppert, Roger E. Apparatus for the automatic reproduction of tape recordings. 3,206,555, 9-14-65, Cl. 179-100.1.

Huppke, Glen P., to Fiber Products Research Center, Inc. Infrared absorbent aluminum phosphate coatings and method of manufacture. 3,198,674, 8-3-65, Cl. 148-6.15.

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Hurkamp, Charles H. Foldable building structure. 3,189,049, 6-22-65, Cl. 20-2.

Hurkmans, Jozefus C., to Hunter Douglas International (Quebec) Ltd. Locking device for lift means, such as for example lift cords or lift tapes of a Venetian blind, a curtain or the like. 3,191,664, 6-29-65, Cl. 160-173.

Hurkmans, Jozefus C., to Hunter Douglas International (Quebec) Ltd. Locking device lift cords of a Venetian blind. 3,221,802, 12-7-65, Cl. 160-173.

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Hurlburt, Charles E., to The Bendix Corp. Pendulous rate gyroscope system. 3,187,587, 6-8-65, Cl. 74-5.7.

Hurlburt, George R., to United States of America, Interior. Automatic water control gate. 3,168,814, 2-9-65, Cl. 61-25.

Hurlburt, Joseph C., to Sperry Rand Corp. Mounting structure. 3,181,686, 5-4-65, Cl. 193-87.

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- Hurley, Forrest R.: See—
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Hurlock, John B. Push-pull type remote control cable. 3,176,538, 4-6-65, Cl. 74-501.
Hurney, Thomas J., to Acme Visible Records, Inc. Record holder device. 3,195,254, 7-20-65, Cl. 40-124.
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Hurschman, Alfred A., to Ampoules, Inc. Drop or spray dispenser. 3,174,655, 3-23-65, Cl. 222-215.
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Hush, Samuel R., and Reigh. 3,167,282.
Hush, Samuel R., deceased (F. J. Hush, J. R. Hush, and C. J. Reigh; said Reigh, assor. to said Hush. Railroad warning device. 3,167,282, 1-26-64, Cl. 246-124.
Hurst, Arnold U., and G. V. Mack, to Reynolds Metals Co. Heat-exchanger having selectively spaced heat-exchange shelving integrally formed therein. 3,165,150, 1-12-65, Cl. 165-75.
Hurst, Charles L., to Manufacturers Machine Co. Rim clamp for truck wheels. 3,199,920, 8-10-65, Cl. 301-13.
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Hurst, George H., Jr., and W. G. Campbell. Gear shift. 3,192,793, 7-6-65, Cl. 74-476.
Hurst, George H., Jr., and W. G. Campbell. Gear shift. 3,216,274, 11-9-65, Cl. 74-476.
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Hurth, Fritz, to Carl Hurth Maschinen- und Zahnradfabrik. Gear finishing tool having hunting tooth action and a plurality of zones each with helically arranged cutting edges. 3,169,447, 2-16-65, Cl. 90-1.6.
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Husa, Howard W., to Standard Oil Co. Method and apparatus for automatically controlling purge rates. 3,177,885, 4-13-65, Cl. 137-3.
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- Ito, Kinichi. Screw locking device. 3,179,142, 4-20-65, Cl. 151-25.
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- Ito, Tadanori: See—
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- Ito, Takao, to Nippon Seiko Kabushiki Kaisha. Spindle insert. 3,224,820, 12-21-65, Cl. 308-155.
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- Ito, Yoshikazu, and S. Torimitsu, to Toyo Rayon Kabushiki Kaisha. Photochemical method of producing cycloalka-noneqime hydrochlorides. 3,218,247, 11-16-65, Cl. 204-162.
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- Itoh, Takao, to Kajima Construction Co., Ltd. Method of assembling shell structures consisting of trusses having twisted surface. 3,195,276, 7-20-65, Cl. 50-55.
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- Itoya, Kunio. Heating conveyor belt. 3,187,152, 6-1-65, Cl. 219-10.69.
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- Itzkan, Irving, to Sperry Rand Corp. Automatic plotting of perturbation measurements in electromagnetic wave structures. 3,217,248, 11-9-65, Cl. 324-58.
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- Ivarson, Nemo S. M., to Kooperativa Forbundet Ekonomisk Forening. Dough beater. 3,207,089, 9-21-65, Cl. 107-4.
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- Iwnicki, Kurt, and D. B. Miller, to British Nylon Spinners Ltd. Process of crimping and setting textile strands. 3,200,467, 8-17-65, Cl. 28-72.
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- Jackson, Donald R., to Wyandotte Chemicals Corp. Detergent compositions comprising inorganic esters of epoxyhydrocarbon polymers. 3,173,877, 3-16-65, Cl. 252-138.
- Jackson, Donald R., and L. G. Lundsted, to Wyandotte Chemicals Corp. Surface active mixtures of polyoxyalkylene compounds having a single heteric polyoxypropylene-polyoxyethylene chain. 3,203,955, 8-31-65, Cl. 260-247.7.
- Jackson, Donald R. P., to The Molins Organisation Ltd. Feeding of webs of material. 3,226,282, 12-28-65, Cl. 156-519.
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- Jackson, George W. Shoring jack. 3,210,047, 10-5-65, Cl. 254-98.
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- Murtland, James B., Jr., Rebhun, and Jackson. 3,187,078.
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- Jackson, James R. Toy lifting device for child's vehicle. 3,222,034, 12-7-65, Cl. 234-139.1.
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- Jackson, Robert G., to Conch International Methane Ltd. Method of gasifying a liquid gas while producing mechanical energy. 3,183,666, 5-18-65, Cl. 60-38.
- Jackson, Robert J., to County Laboratories Ltd. Containers for viscous liquids. 3,165,242, 1-12-65, Cl. 222-495.
- Jackson, Robert N. Apparatus for watering poultry. 3,195,512, 7-20-65, Cl. 119-78.
- Jackson, Robert V., to McCulloch Corp. Arc welder load control. 3,204,173, 8-31-65, Cl. 822-28.
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- Jackson, Thomas J. Column structure erection method. 3,218,775, 11-23-65, Cl. 52-745.
- Jackson, Thomas S., to Expandolite, Inc. Container. 3,191,791, 6-29-65, Cl. 217-255.
- Jackson Vibrators, Inc.: See—
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Hagerman, Charles J. 3,167,140.
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- Jackson, William G., to Burdick and Jackson Laboratories, Inc. Reaction control device. 3,201,615, 8-17-65, Cl. 307-116.
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- Jackson, William E., and W. T. Johns, to Ford Motor Co. Unicycle lift. 3,195,859, 7-20-65, Cl. 254-2.
- Jackson, Wilton C. Weed burning device. 3,172,459, 3-9-65, Cl. 158-79.
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- Jackwig, Roy R., to Rowe Mfg. Co. Door control mechanism. 3,165,143, 1-12-65, Cl. 160-189.
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- Jacob, Charles E. Method and apparatus for producing fresh water or petroleum from underground reservoir formations without contamination of underlying heavier liquid. 3,195,633, 7-20-65, Cl. 166-42.
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- Jacob, Ezekiel J., to Becton, Dickinson, and Co. Hypodermic needle mounting. 3,186,408, 6-1-65, Cl. 128-221.
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- Jacob, Walter E. W., to Telefonaktiebolaget L M Ericsson. Time-multiplexing telephone system. 3,188,393, 6-8-65, Cl. 179-15.
- Jacobaeus, Anton C., to Telefonaktiebolaget L M Ericsson. Exchange for automatic data transmission in telephone systems. 3,183,306, 5-11-65, Cl. 179-2.
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- Jacobl, Arno M., to Walter Jacobl & Sons, Inc. Church kneeler. 3,190,695, 6-22-65, Cl. 297-426.
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- Jacobl, Edward N., to Briggs & Stratton Corp. Compartment door latch. 3,204,994, 9-7-65, Cl. 292-227.
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- Jacobi, Otto K., to Kolmar Laboratories, Inc. Process for removing and purifying water soluble constituents from a keratin structure. 3,194,737, 7-13-65, Cl. 167-90.
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- Jacobs, Arthur W. Gland type coupling for tubes. 3,105,933, 7-20-65, Cl. 285-247.
- Jacobs, Arthur W. Torpedo. 3,214,920, 11-2-65, Cl. 61-72.1.
- Jacobs, Arthur W. Cabinet roller assembly. 3,215,476, 11-2-65, Cl. 308-3.8.
- Jacobs, Charles D. Apparatus for producing dust. 3,223,335, 12-14-65, Cl. 241-109.
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- Jacobs, Henry R. Method of cleaning glass. 3,193,507, 7-6-65, Cl. 252-170.
- Jacobs, Herbert. Automatic feeding, sewing, cutting and stacking apparatus. 3,223,059, 12-14-65, Cl. 112-2.
- Jacobs, Ivan M., to General Electric Co. Reactor leak detector using filters. 3,178,355, 4-13-65, Cl. 176-19.
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- Jacobs, James W., to General Motors Corp. Timer. 3,171,045, 2-23-65, Cl. 307-141.
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- Jacobs, James W., to General Motors Corp. Method of insulating refrigerator cabinets and other insulation spaces. 3,209,056, 9-28-65, Cl. 264-25.
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- Jacobs, Melvin A.: See—
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- Jacobsen, Ernst S. Fishing worm harness. 3,193,965, 7-13-65, Cl. 43-44.4.
- Jacobsen, Gordon O. Electrical switch for warning systems. 3,180,950, 4-27-65, Cl. 200-61.41.
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- Jacobsen, Jens H. Self-sealing and lubricating cutting nut and locking washer. 3,216,475, 11-9-65, Cl. 151-15.
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- Jäger, Holger N., W. Needre, D. E. Gillis, and T. M. N. Wood, to Standard-Thomson Corp. Liquid dispensing apparatus for small quantities. 3,164,304, 1-5-65, Cl. 222-192.
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- Jahn, Marlon C., to Colborne Mfg. Co. Pie crust marker. 3,171,315, 3-2-65, Cl. 83-331.
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- Jakeway, Gerald V., to Keeler Brass Co. Door handles. 3,194,596, 7-13-65, Cl. 292-336.3.
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- Jakob, Fritz, W. Ruckdeschel, and M. Seidel, to Gesellschaft für Linde's Eismaschinen Aktiengesellschaft. System for providing gas separation products at varying rates. 3,174,293, 2-23-65, Cl. 62-39.
- Jakob, Robert H., to California Research Corp. Cyclic crystallization process. 3,219,722, 11-23-65, Cl. 260-674.
- Jakobsson, Stig V., to Göteborgs Verkstadsindustri AB. Double fired heating boiler. 3,213,832, 10-26-65, Cl. 122-2.
- Jakowatz, Charles V., to General Electric Co. Quantized-analogue multiplier. 3,168,645, 2-2-65, Cl. 235-194.
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- James, Dennis B., to Bell Telephone Laboratories, Inc. Diode logarithmic encoder. 3,219,994, 11-23-65, Cl. 340-347.

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- James, Donald R., to Brown Citrus Machinery Corp. Citrus juice extracting machine having means for separating juice and pulp from peel. 3,183,955, 5-18-65, Cl. 146-3.
- James, Dwight C., to Martin-Marietta Corp. Failure detection circuits for redundant systems. 3,226,569, 12-28-65, Cl. 307-88.5.
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- Jamison, Robert M., and N. J. Panzica, to Ajem Laboratories, Inc. Air washer with moving cone to control vertical distribution. 3,170,965, 2-23-65, Cl. 261-29.
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- Jamison, Saunders, E., to Celanese Corp. of America. Interfacial preparation of polyamides with water insoluble inorganic compounds as acid binders. 3,206,438, 9-14-65, Cl. 260-78.
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- Janenkov, Nikolai P. Two-stage plate rotary vacuum pumps. 3,226,014, 12-28-65, Cl. 230-158.
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Jenkins, Lloyd T., to Monsanto Co. Complex catalysts comprising organometallic compound metallic halides and di-oxane for the polymerization of polar monomers. 3,210,329, 10-5-65, Cl. 260-83.7.

Jenkins, Lonnie W., to United States of America, Army. Strain gauge profilometer. 3,193,940, 7-13-65, Cl. 33-174.

Jenkins, Lonnie W., and T. H. Pratt, to United States of America, Army. Method and apparatus for determining the integrity of a solid propellant rocket motor. 3,181,246, 5-4-65, Cl. 33-174.

Jenkins, Melvin R., Jr.: See—
Pocock, Walter E., and Jenkins. 3,214,301.

Jenkins, Merrill M. E., Sr., to Coin Acceptors, Inc. Coin-operated pulse generator. 3,182,780, 5-11-65, Cl. 194-9.

Jenkins, Peter J., to Dunlop Rubber Co., Ltd. Segmental conveyor belt. 3,181,690, 5-4-65, Cl. 198-193.

Jenkins, Peter J., to Dunlop Rubber Co., Ltd. Pneumatic tire. 3,183,956, 5-18-65, Cl. 182-191.

Jenkins, Richard L., and C. D. Cory, Jr., to General Motors Corp. Automatic frequency control with compensation for variable supply voltage. 3,189,830, 6-15-65, Cl. 325-492.

Jenkins, Richard S., to Admiral Corp. Radar bright display system. 3,200,196, 8-10-65, Cl. 178-6.8.

Jenkins, Robert H.: See—
Damerau, Edward A., and Jenkins. 3,212,075.

Jenkins, Robert H., to Superior Concrete Accessories, Inc. Concrete anchoring insert and method of preventing concrete seepage therein. 3,216,171, 11-9-65, Cl. 52-741.

Jenkins, Robert J.: See—
Parker, William J., Butler, Abbott, and Jenkins. 3,165,815.

Jenkins, Roy M., to Lindy Pen Co., Inc. Holding clip for pocket instruments. 3,224,053, 12-21-65, Cl. 24-11.

Jenkins, Thomas E., to General Electric Co. Dishwasher having cabinet configuration for use beneath kitchen sink and disposer. 3,179,481, 4-20-65, Cl. 312-223.

Jenkins, Walter F. Motorcycle pontoons. 3,215,114, 11-2-65, Cl. 115-1.

Jenkins, Walter W., to The National Acme Co. Angular cutting machine. 3,181,399, 5-4-65, Cl. 82-11.

Jenkins, William B.: See—
McLean, John O., and Jenkins. 3,199,929.

Jenkins, William J., to United States of America, Atomic Energy Commission. Method of dissolving plutonium with sulfuric acid. 3,208,817, 9-28-65, Cl. 23-14.5.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Process of producing boranes. 3,165,381, 1-12-65, Cl. 23-204.

Jenkner, Herbert, and H. W. Schmidt, to Kali-Chemie Aktiengesellschaft. Preparation of sodium borohydrides. 3,222,121, 12-7-65, Cl. 23-14.

Jenks, Charles R., Jr.: See—
Nowak, James E., Quall, and Jenks. 3,202,353.

Jenks, Don M.: See—
Fettig, Arthur J., Jenks, Lasdine, Maidment, and Runde. 3,195,810.

Jenks, William R., and A. W. Andresen, to E. I. du Pont de Nemours and Co. Apparatus and process for preparing hydrogen cyanide. 3,215,495, 11-2-65, Cl. 23-151.

Jenn Air Products Co., Inc.: See—
Jenn, Louis J., and Field. 3,180,331.
Jenn, Louis J., and Simms. 3,196,862.

Jenn, Louis J., and T. R. Field, to Jenn Air Products Co., Inc. Oven with auxiliary exhaust structure. 3,180,331, 4-27-65, Cl. 126-21.

Jenn, Louis J., and E. W. Simms, to Jenn Air Products Co., Inc. Oven exhaust structure. 3,196,862, 7-27-65, Cl. 126-21.

Jenner, Myron. Package. 3,182,791, 5-11-65, Cl. 206-56.

Jenner, Ray R., to Mechanical Products, Inc. Circuit breaker compensated for ambient temperature and for the activity factor of the current responsive element. 3,182,152, 5-4-65, Cl. 200-116.

Jenness, Raymond C.: See—
Waddell, Eugene P., and Jenness. 3,191,719.

Jenniges, Lawrence M., and J. G. Hamic, Sr., to Carter Craft, Inc. Furniture and chair bracket construction. 3,224,810, 12-21-65, Cl. 297-451.

Jennings, Alan K., R. D. Cone, and E. Seid, to California Computer Products, Inc. Graphical data recorder system. 3,199,111, 8-3-65, Cl. 346-29.

Jennings, David C.: See—
Arnold, Walter E., De Roze, Jennings, and Peters. 3,221,477.

Jennings, David C., to United Aircraft Corp. Ball valve. 3,166,093, 1-19-65, Cl. 137-625.43.

Jennings, Earl R.: See—
Lang, Harold M., Jennings, Howard, and Wilder. 3,202,562.

Jennings, Edward E., to The Pipe Machinery Co. Coolant discharge device for cutting tool. 3,176,330, 4-6-65, Cl. 10-106.

Jennings, Edward J., and R. J. Tague. Portable ink-removal device for ink rolls. 3,187,870, 6-8-65, Cl. 101-425.

Jennings, Harry C., to Everest & Jennings, Inc. Wheel chair arm lock. 3,174,800, 3-23-65, Cl. 297-416.

Jennings, Henry A., to Monash Industries Proprietary Ltd. Means for dispensing paste materials from cartridges. 3,220,616, 11-30-65, Cl. 222-327.

Jennings, Irving C., to The Nash Engineering Co. Liquid ring pump. 3,209,987, 10-5-65, Cl. 230-79.

Jennings, Irving C. Pump device. 3,217,975, 11-16-65, Cl. 230-79.

Jennings, Jack W. Automatic deep-fat pressure cooker. 3,187,664, 6-8-65, Cl. 90-329.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Push-pull oscillator power supply having parallel-connected transformers. 3,164,784, 1-5-65, Cl. 331-113.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch and envelope construction therefor. 3,166,658, 1-19-65, Cl. 200-144.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Envelope construction for vacuumized electric switch including means internally providing capacitive voltage division between adjacent terminals. 3,178,541, 4-13-65, Cl. 200-144.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch and internal shielding therefor. 3,178,542, 4-13-65, Cl. 200-144.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Internal shield and seal structure for vacuum sealed switch envelope. 3,189,715, 6-15-65, Cl. 200-144.

Jennings, Jo E., to Jennings Radio Mfg. Corp. High power vacuum fuse. 3,190,986, 6-22-65, Cl. 200-120.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Shield structure for vacuum switches and the like. 3,190,991, 6-22-65, Cl. 200-144.

Jennings, Jo E., to Jennings Radio Mfg. Corp. High power vacuum circuit breaker contacts and arc-extinguishing means therefor. 3,186,236, 7-20-65, Cl. 200-144.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Triggering arrangement for a vacuum spark gap. 3,218,499, 11-16-65, Cl. 313-152.

Jennings, Jo E., to Jennings Radio Mfg. Corp. Expandable vacuum envelope for electrical devices. 3,222,484, 12-7-65, Cl. 200-144.

Jennings, John H. Refrigerant subcooling unit. 3,177,929, 4-13-65, Cl. 165-39.

Jennings, Joseph F.: See—
Kirkland, Earl V., and Jennings. 3,225,107.

Jennings, Lyndon C., to The New York Air Brake Co. Starting system. 3,218,797, 11-23-65, Cl. 60-19.

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Virtue, Eugene P., Jennings, and Swanson. 3,200,714.

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Jennings Radio Mfg. Corp.: See—
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Jennings, Jo E. 3,164,784.

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Jennings, Jo E. 3,178,541.

Jennings, Jo E. 3,178,542.

Jennings, Jo E. 3,189,715.

Jennings, Jo E. 3,190,986.

Jennings, Jo E. 3,190,991.

Jennings, Jo E. 3,196,236.

Jennings, Jo E. 3,218,499.

Jennings, Jo E. 3,222,484.

Jennings, Jo E. 3,187,140.

Lindsay, Wesley N. 3,218,409.

Lindsay, Wesley N. 3,213,340.

Robertson, David D. 3,171,090.

Tilman, Ted N. 3,171,090.

Jennings, Richard A., to John Ackworth Ltd. Indexing devices for machine tools. 3,207,007, 9-21-65, Cl. 74-820.

Jennings, Richard P., to Sir James Farmer Norton & Co. Ltd. High speed bar turning machines. 3,216,294, 11-9-65, Cl. 82-38.

Jennings, Roger G., to Pacific Vegetable Oil Corp. Method and apparatus for pre-expansion of plastic foams. 3,181,839, 5-4-65, Cl. 259-8.

Jennings, Roger G., to Pacific Vegetable Oil Corp. Erecting partition walls. 3,182,423, 5-11-65, Cl. 50-70.

Jennings, Roger G., to Pacific Vegetable Oil Corp. Method and apparatus for producing plastic foam. 3,208,958, 9-28-65, Cl. 260-2.5.

Jennings, Samuel J. Cotton picking apparatus. 3,217,475, 11-16-65, Cl. 56-49.

Jennings, William J.: See—
Crowley, Daniel L., Smith, and Jennings. 3,172,473.
Jennis, Murray, to H. Goodman & Sons, Inc. Hair curl clip with floating pivotal connection. 3,213,865, 10-26-65, Cl. 132-46.
Jenny, Alfred L.: See—
Mohler, Donald, Westbrook, and Jenny. 3,182,235.
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Jenny, Erwin F.: See—
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Jenny, Frank J. Method of synthesizing aromatic hydrocarbons. 3,176,045, 3-30-65, Cl. 260-673.
Jenny, Frank J. Method for hydrocracking high molecular weight hydrocarbons. 3,200,061, 8-10-65, Cl. 208-58.
Jenny, Rudolf, to Maschinenfabrik Schwelzer AG. Device for decreasing yarn tension. 3,199,806, 8-10-65, Cl. 242-128.
Jenny, Rudolf, to Maschinenfabrik Schwelzer AG. Control device for a winding machine. 3,224,693, 12-21-65, Cl. 242-35.5.
Jenny, Walter: See—
Hart, Istvan, and Jenny. 3,203,958.
Jense, Willem F., to Shell Oil Co. Process for making moldable masonry articles of manufacture. 3,188,226, 6-8-65, Cl. 117-5.3.
Jensen, Aage. Spool valve for the concurrent control of a plurality of motors. 3,224,463, 12-21-65, Cl. 137-625.69.
Jensen, Arthur E. Irrigation apparatus. 3,217,737, 11-16-65, Cl. 137-344.
Jensen, Arthur E. Agricultural wheel construction. 3,218,105, 11-16-65, Cl. 301-53.
Jensen, Arthur J., to Texas Instruments Inc. Semiconductor device enclosure with weld reinforcing ring. 3,184,534, 5-18-65, Cl. 174-52.
Jensen, Arthur S., and M. P. Siedband, to Westinghouse Electric Corp. Stored signal enhancement electron discharge device. 3,176,183, 3-30-65, Cl. 315-11.
Jensen, Arthur S., and M. P. Siedband, to Westinghouse Electric Corp. Pickup tube with dark current supply source. 3,183,400, 5-11-65, Cl. 315-11.
Jensen, Arthur S., and I. Limansky, to Westinghouse Electric Corp. Radiant energy converter. 3,218,196, 11-16-65, Cl. 136-89.
Jensen, Arthur S., and W. G. Rehniger, to Westinghouse Electric Corp. Storage tube and target element therefor having an irregular surface. 3,218,496, 11-16-65, Cl. 313-67.
Jensen, Axel E.: See—
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Cordis, Nat. and G. S. 3,213,796.
Cordis, Nat. and G. S. 3,213,873.
Jensen, Clarence F., to Jensen Industries, Inc. Adjustable mounting for phonograph pickups. 3,176,993, 4-6-65, Cl. 274-24.
Jensen, Cornelius. Question and answer game for the school and home. 3,212,201, 10-19-65, Cl. 35-31.
Jensen, Dennis C. Compensator and relief valve for liquid filled batteries. 3,208,884, 9-28-65, Cl. 136-178.
Jensen, Einar W.: See—
Trout, Perry R., Jr., and Jensen. 3,178,124.
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Berkowitz, Norbert, and Jensen. 3,190,701.
Jensen, Finn, to Illinois Railway Equipment Co. Freight car construction with lading tie bars. 3,179,068, 4-20-65, Cl. 105-369.
Jensen, Garold K., and J. E. McGeogh, to United States of America, Navy. Automatic sweep tuning circuit with means to change the range of reactance after each sweep through a sub-band. 3,166,726, 1-19-65, Cl. 334-19.
Jensen, Garold K., and J. E. McGeogh. Active comb filter. 3,170,120, 2-16-65, Cl. 330-117.
Jensen, Gerald A.: See—
Hawkins, Robert A., and Jensen. 3,191,088.
Jensen, Hans A.: See—
Sloan, Edward C., Eberman, and Jensen. 3,189,505.
Jensen, Hans H.: See—
Trampel, Kurt M., and Jensen. 3,188,907.
Jensen, Helmar O., to Hysteresis Motor Research, Inc. Stator for hysteresis motors. 3,206,629, 9-14-65, Cl. 310-162.
Jensen, Herman G., to The Seeburg Corp. Multiple pricing credit mechanism for coin-responsive equipment. 3,202,256, 8-24-65, Cl. 194-15.
Jensen, Herman G., to The Seeburg Corp. Multiple pricing unit. 3,208,572, 9-28-65, Cl. 194-1.
Jensen, Homer, to Aero Service Corp. Continuous photographic apparatus. 3,176,808, 3-30-65, Cl. 346-107.
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Jensen, Jack H.: See—
Small, Bernard I., and Jensen. 3,169,311.
Jensen, James L., to Honeywell Inc. Starting circuit for semiconductor inverters. 3,172,060, 3-2-65, Cl. 331-113.
Jensen, James L., to Honeywell Inc. Electrical high voltage power supply apparatus. 3,213,344, 10-19-65, Cl. 320-1.
Jensen, Jens L. Road construction. 3,213,768, 10-26-65, Cl. 94-14.
Jensen, Knud A., to Infanset Co. Baby carrier apparatus. 3,171,687, 3-2-65, Cl. 297-377.
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Jensen, Otto, and W. A. Carter, to I-T-E Circuit Breaker Co. Main series capacitor protective spark gap. 3,210,590, 10-5-65, Cl. 313-325.

Jensen, Otto G., A. J. Shukis, and J. E. Bagan, to National Biscuit Co. Method of preparing chocolate coatings. 3,199,984, 8-10-65, Cl. 99-23.
Jensen, Pearl M. Garment hanger support for clothesline. 3,193,235, 7-6-65, Cl. 248-317.
Jensen, Peter W., to Ampex Corp. Magnetic tape recording and reproducing system. 3,213,192, 10-19-65, Cl. 178-5.4.
Jensen, Peter W., to Ampex Corp. Tape reproducing system. 3,225,134, 12-21-65, Cl. 178-5.4.
Jensen, Philip B., to Scovill Mfg. Co. Machine for registering work. 3,166,758, 1-26-65, Cl. 1-318.
Jensen, Philip B., to Scovill Mfg. Co. Ornamental snap fasteners. 3,176,361, 4-6-65, Cl. 24-90.
Jensen, Preben W., to American Machine & Foundry Co. Apparatus for separating lengths of can stock. 3,183,754, 5-18-65, Cl. 83-341.
Jensen, Raymond W., and J. E. McDonald; said Jensen assor. to said McDonald. Front loading means for trucks. 3,167,195, 1-26-65, Cl. 214-302.
Jensen, Robert, and C. W. Elsenheimer, to Prentice Corp. Slide fastener stop. 3,210,819, 10-12-65, Cl. 24-205.11.
Jensen, Robert H., deceased; L. E. Jensen, executrix. Portable outlet extension and light. 3,197,631, 7-27-65, Cl. 240-81.
Jensen, Robert M., to A-S-H Industries, Inc. Bag house construction. 3,177,636, 4-13-65, Cl. 55-341.
Jensen, Rodger H. Lamp socket and connector for edge-lighted panel. 3,176,255, 3-30-65, Cl. 339-17.
Jensen, Sanning C. Self-aligned multiple hammer assembly or hammermills. 3,208,676, 9-28-65, Cl. 241-195.
Jensen, Stanley W., to The Snow Corp. Fender mounting bracket assembly for tractor canopies. 3,205,003, 9-7-65, Cl. 296-102.
Jensen, Warren N., to Stewart-Warner Corp. Shaft support and damping means or eddy current instrument. 3,196,692, 7-27-65, Cl. 73-496.
Jensen, Warren P.: See—
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Jensen, Warren R.: See—
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Jensen, William T., and W. J. McGinley, to Methode Electronics, Inc. Laminated socket with solder-well terminals. 3,208,034, 9-21-65, Cl. 339-194.
Jenson, Kenneth S., to Preway, Inc. Ventilating hood. 3,176,605, 4-6-65, Cl. 98-115.
Jenson, Kenneth S., to Preway, Inc. Damper device and hood including damper. 3,194,146, 7-13-65, Cl. 98-115.
Jenson, Kenneth S., to Preway, Inc. Vent hood and blower device usable therein. 3,199,435, 8-10-65, Cl. 98-115.
Jenssen, Sverre K., to Rosenblads Patent, Aktiebolaget. Two unit plate exchanger with end supports. 3,196,937, 7-27-65, Cl. 165-68.
Jentel, Fred O. Portable folding chair. 3,214,217, 10-26-65, Cl. 297-45.
Jentel, Maxime L., to Chausson, Societe Anonyme des Usines. Device for the thermic treatment of gases required to undergo a sudden rise and then an abrupt drop in temperature. 3,203,190, 8-31-65, Cl. 62-5.
Jentel, Maxime L., to Societe Anonyme des Usines Chausson. Air-conditioning process and equipment, more particularly for vehicles. 3,209,551, 10-5-65, Cl. 62-160.
Jentel, Maxime L., to Societe Anonyme des Usines Chausson. Cooling system for liquids used in machine tools and similar appliances. 3,213,934, 10-26-65, Cl. 165-106.
Jentoft, Arthur P., and R. A. Evanko, to H. H. Robertson Co. Building outer wall structure. 3,199,258, 8-10-65, Cl. 52-282.
Jentzsch, Dietrich, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Method of making capillary columns. 3,182,394, 5-11-65, Cl. 29-460.
Jentzsch, Dietrich, and H. Weber, to Bodenseewerk Perkin-Elmer & Co. G.m.b.H. Gas chromatography valving apparatus. 3,203,249, 8-31-65, Cl. 73-422.
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Jeppson, Allan, to Svenska Flaktfabriken, Aktiebolaget. Means for connecting thin-walled plane elements. 3,199,901, 8-10-65, Cl. 285-364.
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Jepsen, Henry E. Pump. 3,203,358, 8-31-65, Cl. 103-148.
Jepson, Ivar, to Sunbeam Corp. Automatic egg cooker. 3,166,005, 1-19-65, Cl. 99-440.
Jepson, Ivar, to Sunbeam Corp. Electric connector for remotely controlled electric heating and cooking vessels. 3,169,042, 2-9-65, Cl. 339-91.
Jepson, Ivar, to Sunbeam Corp. Electric dry shaver wherein the cutter shaft is mounted in a rubberlike material. 3,206,850, 9-21-65, Cl. 30-43.9.
Jepson, Ivar, to Sunbeam Corp. Vacuum cleaner. 3,210,916, 10-12-65, Cl. 55-471.
Jepson, Ivar, to Sunbeam Corp. Foam generator for rug scrubbing apparatus. 3,218,657, 11-23-65, Cl. 15-50.
Jepson, Ivar, and J. P. Wied, to Sunbeam Corp. Vacuum cleaner. 3,170,184, 2-23-65, Cl. 15-323.

Jepson, Ivar, G. R. Wolter, and H. O. De Boer, Jr., to Sunbeam Corp. Disintegrator and mixer. 3,175,594, 3-30-65, Cl. 146-68.
Jepson, Ivar, and G. R. Wolter, to Sunbeam Corp. Can opener supporting device. 3,176,063, 3-30-65, Cl. 174-52.
Jepson, Ivar, and E. G. Lill, to Sunbeam Corp. Cast aluminum frame for a power-operated lawn mower. 3,176,454, 4-6-65, Cl. 56-249.
Jepson, Ivar, and O. Babler, to Sunbeam Corp. Electric dry shaver. 3,181,237, 5-4-65, Cl. 30-34.2.
Jepson, Ivar, G. R. Wolter, and A. F. Ernstberger, to Sunbeam Corp. Vacuum cleaner. 3,188,681, 6-15-65, Cl. 15-337.
Jepson, Ivar, J. R. Cochrane, and R. D. Grahm, to Sunbeam Corp. Electric space heater. 3,189,727, 6-15-65, Cl. 219-377.
Jepson, Ivar, and C. H. Wickenberg, to Sunbeam Corp. Electrically heated cooking vessel. 3,196,253, 7-20-65, Cl. 219-436.
Jepson, Ivar, and F. J. Schuessler, to Sunbeam Corp. Electric dry shaver. 3,190,539, 7-27-65, Cl. 30-43.9.
Jepson, Ivar, and W. L. Chambers, to Sunbeam Corp. Beater ejecting means for an electric food mixer. 3,198,490, 8-3-65, Cl. 259-1.
Jepson, Ivar, and J. P. Wied, to Sunbeam Corp. Cleaning attachment for vacuum cleaner. 3,203,023, 8-31-65, Cl. 15-371.
Jepson, Ivar, and S. R. Kukulski, to Sunbeam Corp. Electrically operated hair clipping and shaving device. 3,203,090, 8-31-65, Cl. 30-34.1.
Jepson, Ivar, and F. J. Schuessler, to Sunbeam Corp. Dry shaver blade having hook-shaped securing means. 3,208,141, 9-28-65, Cl. 30-43.7.
Jepson, Ivar, and S. R. Kukulski, to Sunbeam Corp. Electric dry shaver. 3,213,301, 10-19-65, Cl. 310-38.
Jepson, Ivar, S. J. Dokos, and S. H. Bielak, to Sunbeam Corp. Can opener. 3,216,108, 11-9-65, Cl. 30-4.
Jepson, Ivar, and H. M. Neben, to Sunbeam Corp. Hedge trimmer. 3,217,408, 11-16-65, Cl. 30-166.
Jepson, Ivar. Electric lawn mower with improved grounding means. 3,217,824, 11-16-65, Cl. 180-65.
Jepson, Ivar, and J. P. Wied, to Sunbeam Corp. Hanger strap for vacuum cleaner hose. 3,220,041, 11-30-65, Cl. 15-323.
Jepson, Ivar, H. O. De Boer, Jr., and G. R. Wolter, to Sunbeam Corp. Hair dryer. 3,220,119, 11-30-65, Cl. 34-99.
Jepson, Ivar, and L. J. Koel. Manual adjusting means for electric percolator. 3,221,127, 11-30-65, Cl. 200-139.
Jepson, Ivar, J. L. Vico, and S. Walczak, to Sunbeam Corp. Pressing iron. 3,224,122, 12-21-65, Cl. 38-77.
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Jepson, Michael D., and G. F. Underhay, to The Bowater Research and Development Co. Ltd. Paper drying hood. 3,176,411, 4-6-65, Cl. 34-122.
Jepson, Robert L., to Varian Associates. Magnetically confined glow discharge apparatus. 3,174,069, 3-16-65, Cl. 313-161.
Jeranson, Richard C. Stringed musical instrument bridge. 3,178,985, 4-20-65, Cl. 84-307.
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Jeremiah, Earl E., to National Can Corp. Can depalletizing machine. 3,187,909, 6-8-65, Cl. 214-8.5.
Jeremiah, Earl E., to National Can Corp. Machine for palletizing cans. 3,219,203, 11-23-65, Cl. 214-6.
Jeremias, Charles G., and F. E. Barwick, III, to Martin-Marietta Corp. Disazo disulfide dyestuffs. 3,225,025, 12-21-65, Cl. 260-176.
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Jericho, Boris, to Gotaverken, Aktiebolaget. Hatch covers of the type comprising a plurality of pairs of sections foldably connected to one another. 3,199,576, 8-10-65, Cl. 160-193.
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 Johnson, Albert H. Continuous series of envelopes. 3,208,663, 9-28-65, Cl. 229-69.
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- Jones, Giffin D., and R. M. Nowak, to The Dow Chemical Co. Graft copolymers of polyolefins and monovinyl aromatic compounds and method of making same. 3,177,270, 4-6-65, Cl. 260-878.
- Jones, Glen D. Apparatus for making crushed ice. 3,165,904, 1-19-65, Cl. 62-188.
- Jones, Gordon H.: See—
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- Jones, Gordon H., to Giddings & Lewis Machine Tool Co. Method and apparatus for machining nozzle clusters and the like. 3,189,994, 6-22-65, Cl. 29-558.
- Jones, Gordon H., to Giddings & Lewis Machine Tool Co. Clamp for machine tool. 3,192,600, 7-6-65, Cl. 29-1.
- Jones, Gordon H., and E. E. Hosea, to Giddings & Lewis Machine Tool Co. Power indexing mechanism for machine tools. 3,204,490, 9-7-65, Cl. 74-822.
- Jones, Griffith, Jr.: See—
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- Jones, Gwilym T.: See—
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- Jones, Harold A.: See—
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- Jones, Harold D., Jr. Device for opening or closing an electrical circuit when a particular liquid level is reached. 3,197,590, 7-27-65, Cl. 200-83.
- Jones, Harold G. Photographic contact printing apparatus. 3,224,353, 12-21-65, Cl. 95-76.
- Jones, Harold V. Instrument for checking and inspecting contact lenses. 3,171,883, 3-2-65, Cl. 88-56.
- Jones, Harold V. Self-locking fastener. 3,202,194, 8-24-65, Cl. 151-7.
- Jones, Harold V., Jr.: See—
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- Jones, Harry J., to Dominion Engineering Works, Ltd. Reel for coiling strip material. 3,167,270, 1-26-65, Cl. 242-72.1.
- Jones, Hartl R., to Mojonner Bros. Co. Vacuum type milk transfer system. 3,187,719, 6-8-65, Cl. 119-14.08.
- Jones, Heald D.: See—
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- Jones, Henry S.: See—
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- Jones, Hicks. Sportsman's chair. 3,177,825, 4-13-65, Cl. 108-128.
- Jones, Robert B. Flexible chain extension or shank for tools with lock link features. 3,188,895, 6-15-65, Cl. 81-177.
- Jones, Homer E., to V. B. M. Jones. Manual record player. 3,184,241, 5-18-65, Cl. 274-14.
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- Jones, Howard D. Bowling ball with sighting means. 3,223,408, 12-14-65, Cl. 273-63.
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- Jones, Hugh C., to L. L. Dills and R. W. Callaway. Stamp dispensing machine. 3,165,248, 1-12-65, Cl. 225-16.
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- Boyd, Charles A., Jones, Kartluke, and McKalg. 3,212-313.
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- Jones, James B., to Sonobond Corp. Vibratory welding method and apparatus. 3,209,448, 10-5-65, Cl. 29-470.1.
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- Jones, James B., H. L. McKalg, Jr., N. Maropis, and C. A. Boyd, to Aeroprojects Inc. Vibratory energy radiating system. 3,210,724, 10-5-65, Cl. 340-12.

- Jones, James D., to Pye Ltd. High frequency transistor circuits. 3,181,068, 4-27-65, Cl. 325-436.
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- Jones, James S. Ammonia flow regulators. 3,173,448, 3-16-65, Cl. 137-614.19.
- Jones, James T. Deceased (by M. L. Jones, executrix), to The Metalife Co. Dispenser for semi-fluid hand cleaners and the like. 3,191,639, 6-29-65, Cl. 141-18.
- Jones, Jesse J. Fishing tackle retrievers. 3,186,121, 6-1-65, Cl. 43-17.2.
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- Jones, John E., Jr., to Cameron and Jones, Inc. Off-gas collector system. 3,178,163, 4-13-65, Cl. 263-29.
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- Jones, John P., Jr., to Navigation Computer Corp. Recording system. 3,221,334, 11-30-65, Cl. 346-33.
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- Jones, Kenneth, and A. I. B. Stirling, to Associated Electrical Industries Ltd. Roll heating means. 3,178,923, 4-20-65, Cl. 72-200.
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- Jones, Lawrence G. F., to Sperry Rand Corp. Information storage device. 3,201,769, 8-17-65, Cl. 340-174.1.
- Jones, Lee B. III. Self-adjusting standard. 3,185,423, 5-25-65, Cl. 248-188.3.
- Jones, Lee B., III. Roofing connector plate. 3,192,670, 7-6-65, Cl. 50-67.
- Jones, Lerroy V., D. Ofte, P. A. Tucker, and L. J. Whittenberg, to United States of America, Atomic Energy Commission. Method of making plutonium oxide spheres. 3,171,714, 3-2-65, Cl. 23-14.5.
- Jones, Lloyd E., to Industrial Brush Co. Helical brush means and method for making the same. 3,193,865, 7-13-65, Cl. 15-182.
- Jones, Lloyd E., to Industrial Brush Co. Rotary brush means and brush strip accumulator therefor. 3,193,866, 7-13-65, Cl. 15-182.
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- Jones, Marvin R., to Cameron Iron Works, Inc. Guide system for underwater wells. 3,220,477, 11-30-65, Cl. 166-46.
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- Whiteford, Carlton L. 3,224,576.
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- Jones, Roger B., and R. B. Smith, to Specialties Development Corp. Condition responsive system with prevention of false indication. 3,188,617, 6-8-65, Cl. 340-213.
- Jones, Roy D., R. F. Parks, and A. Gorze, to Steel Heddle Mfg. Co. Tension device. 3,191,885, 6-29-65, Cl. 242-154.
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- Jonsson, Bror E., to Ewos, Aktiebolaget. Dispensing apparatus. 3,186,598, 6-1-65, Cl. 222-57.
- Jonsson, Emil I., to Atlas Copco Aktiebolag. Automatic feeding device for rock drills. 3,204,706, 9-7-65, Cl. 173-10.

- Jonsson, Esther E.: See—
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Jordan, Merrill E., H. M. Cole, W. G. Burbine, and D. L. Peterdon, to Cabot Corp. Process for producing magnetic carbon black compositions. 3,213,026, 10-19-65, Cl. 252-62.5.
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Joseph, William, to Metro-Goldwyn-Mayer Inc. Machine for making disk phonograph records. 3,186,029, 6-1-65, Cl. 18-5.3.
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Jucker, Ernst, and R. Suess, to Sandoz Ltd. 2,8-(para-F-4-oxo-butyl)-diazaspiro[4,5]decane-1,3-diones. 3,198,800, 8-3-65, Cl. 260-294.

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- Judd, Claude I., to Colgate-Palmolive Co. Aminoalkyl-N-benzodioxyl carbamates. 3,185,692, 5-25-65, Cl. 260-268.
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- Juffa, Richard, H. Kruger, R. Michaelis, H. J. Rehberg, J. Schmal, and H. H. Schulz, to Farbenfabriken Bayer Aktiengesellschaft. Ejection device. 3,199,740, 8-10-65, Cl. 222-146.
- Jullis, Albert G., to Senco Products, Inc. End loading staple magazine. 3,174,672, 3-23-65, Cl. 227-120.
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- Julian, Frederick A., and A. C. Riviere, to United Kingdom Atomic Energy Authority. Linear accelerators of tandem type. 3,209,269, 9-28-65, Cl. 328-233.
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- Jung, Jean-Pierre, and G. Schetty, to J. R. Geigy, A.G. Disazo dyestuffs. 3,197,455, 7-27-65, Cl. 260-160.
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- Jungermann, Werner, R. Niemann, L. Six, and W. Walther, to Industrie-Werke Karlsruhe Aktiengesellschaft. Disintegrating training ammunition for firearms. 3,170,405, 2-23-65, Cl. 102-91.
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- Karpt, John W.: See—
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- Karpt, Nikolaus. Camera range-finder adjustment system. 3,198,098, 8-3-65, Cl. 95-44.
- Karpt, Nikolaus. Cable release connectors for camera shutters. 3,200,728, 8-17-65, Cl. 95-53.
- Karpiel, Chester, by Holley Carburetor Co. Fuel control for spark ignition internal combustion engines. Re. 25,848, 8-31-65, Cl. 123-139.
- Karpinsky, Jurij, to Československa Akademie ved. Method of and device for measuring small alternating signals. 3,214,692, 10-26-65, Cl. 325-363.
- Karpiuk, Robert S.: See—
Moolenaar, Robert J., Karpiuk, and Nelpert. 3,164,461.
- Karppinen, Charles E., and F. G. Rising, to American Radiator & Standard Sanitary Corp. Thermostatic valve. 3,182,910, 5-11-65, Cl. 236-34.
- Karpus, John T., Jr., to Pneumodynamics Corp. Regulator valve. 3,183,932, 5-18-65, Cl. 137-614.19.
- Karr, Philip R., to Thompson Ramo Wooldridge Inc. Time distortion tolerant signalling system. 3,199,106, 8-3-65, Cl. 343-17.2.
- Karrberg, Gustaf H., and K. G. E. Derman. Rolling mill for rings. 3,196,651, 7-27-65, Cl. 72-70.
- Karrer, Weber & Cie. Armaturenfabrik und Metallgiesserei, Aktiengesellschaft: See—
Stuhl, Bruno. 3,207,183.
- Karsay, Bela I., and A. W. Yodis, to Allied Chemical Corp. Process for solution of nitrosyl sulfuric acid. 3,180,834, 4-27-65, Cl. 252-101.
- Karsh, Herbert, to Epsco, Inc. Analog-to-digital converters. 3,189,891, 6-15-65, Cl. 340-347.
- Kartaschoff, Pierre, to Laboratoire Suisse de Recherches Horlogeres. Means for adjusting a time-measuring system by means of a time-standard. 3,166,888, 1-26-65, Cl. 58-23.
- Karten, Marvin J.: See—
Shapiro, Seymour L., Freedman, and Karten. 3,182,064.
- Karthaus, Otto. Striker assembly for projecting game elements. 3,190,653, 6-22-65, Cl. 273-87.4.
- Kartluke, Harold L., Jr.: See—
Boyd, Charles A., Jones, Kartluke, and McKaig. 3,213,313.
- Kartluke, Herbert: See—
Boyd, Charles A., Jones, Kartluke, and McKaig. 3,213,312.
- Kartridg Pak Co., The: See—
Rousseau, Roy S. 3,176,727.
- Stanley, Richard B. 3,186,451.
- Stanley, Richard B., and Rousseau. 3,180,478.
- Kar-Trol Signal Co., Inc.: See—
Hulet, Jack. 3,164,820.
- Kasady, Fred, to Avco Corp. Breaker strip construction for insulated container. 3,165,221, 1-12-65, Cl. 220-9.

Kasahara, Yasuo, to S. Shimada. Circuit breaker having a permanent magnet made of Curie point material. 3,226,507, 12-28-65, Cl. 200-88.

Kasbohm, Martin L., H. J. Portzer, H. C. Dellinger, and P. D. Franson, to Union Carbide Corp. Acetylene recovery process. 3,174,292, 3-23-65, Cl. 62-12.

Kase, Oldrich: See—

Joch, Josef, Kaspar, and Kase. 3,225,454.

Kaseman, Paul W., to Radio Corp. of America. Pickup tube having a cesiated photocathode and a substantially leakage-free target, and method of making the same. 3,179,835, 4-20-65, Cl. 313-89.

Käsermann, Werner, to Winkler Fallert & Co., Ltd. Printing apparatus. 3,200,742, 8-17-65, Cl. 101-247.

Kasey, Robert A., Jr., to E. I. du Pont de Nemours and Co. Process for producing speckled fabric. 3,212,158, 10-19-65, Cl. 28-74.

Kash Products Inc.: See—

Kashergen, Michael J., to Kash Products Inc. Backhoe and bucket incorporated therein, and method of digging earth. 3,195,747, 7-20-65, Cl. 214-138.

Kashima, Kan: See—

Oshima, Motoyoshi, Maeda, and Kashima. 3,223,698.

Kashiwabara, Thomas T., to Keuffel & Esser Co. Diazotype reproduction material. 3,199,982, 8-10-65, Cl. 96-49.

Kashiwabara, Thomas T., to Keuffel & Esser Co. Method of developing a negative electrostatic latent image. 3,220,830, 11-30-65, Cl. 96-1.

Kasidas, Ray C., to Seovill Mfg. Co. Hose coupling. 3,220,753, 11-30-65, Cl. 285-174.

Kasinkas, Edward M.: See—

McConnell, Albert L., and Kasinkas. 3,224,574.

Kasio, Jose, and R. M. de Garcia. Attachable side wall covering for tires. 3,164,192, 1-5-65, Cl. 152-353.

Kaskkula, Henno: See—

Lee, Lieng-huang, and Kaskkula. 3,177,179.

Kasman, Sidney, to Polaroid Corp. Selective oxidation of leuco-anthraquinone with pyridine-N-oxide. 3,173,929, 3-16-65, Cl. 260-378.

Kason Display Hardware Inc.: See—

Berkowitz, Irving L. 3,170,742.

Kason Hardware Corp.: See—

Berkowitz, Irving L. 3,201,960.

Kasoolin, Viacheslav S.: See—

Akhalya, Mikhail G., Kasoolin, Astafiev, Babkin, Burtsev, Kalinina, and Tatishvili. 3,193,165.

Kaspar, Anton: See—

Lamken, Walter, Koschig, and Kaspar. 3,204,281.

Kaspar, Mirko: See—

Joch, Josef, Kaspar, and Kase. 3,225,454.

Kaspar, Emanuel: See—

Krieger, Bernhard, Blanke, and Kaspar. 3,202,683.

Kaspar, Peter D.: See—

Ambrose, Paul E., Dorsey, and Kaspar. 3,219,039.

Kaspar, Peter D., to International Latex Corp. Method of making laminated articles. 3,184,357, 5-18-65, Cl. 156-165.

Kasparian, Casper, to The Strong Electric Corp. Motor control. 3,200,285, 8-10-65, Cl. 314-68.

Kasparian, George L., to Union Carbide Corp. Plate and fin type heat exchanger. 3,213,933, 10-26-65, Cl. 165-104.

Kasparian, Kaspar R. Pressure can for hot dispensing. 3,217,937, 11-16-65, Cl. 222-146.

Kasparian, Leon. Motion picture production with controlled aspect ratio. 3,176,311, 3-30-65, Cl. 352-38.

Kasper, Frank S., to Amtron Inc. Reverse current motor circuit including dynamic braking. 3,219,899, 11-23-65, Cl. 318-291.

Kasper, Robert J.: See—

Sommer, Richard A., and Kasper. 3,197,603.

Kasper, Robert J., to The Ohio Crankshaft Co. Temperature control apparatus. 3,183,294, 5-11-65, Cl. 13-27.

Kasper, Robert J., and R. A. Sommer, to The Ohio Crankshaft Co. High frequency induction melting furnace. 3,177,282, 4-6-65, Cl. 13-27.

Kasper, Robert J., and R. F. Seyfried, to The Ohio Crankshaft Co. Automatic induction furnace control. 3,185,811, 5-25-65, Cl. 219-1077.

Kasperowicz, Henry. Flat color cathode ray tube. 3,226,596, 12-28-65, Cl. 315-21.

Kass, David, to Original Toy Corp. Doll and doll clothing stand. 3,207,094, 9-21-65, Cl. 102-24.

Kass, Gerald H., to Anderson Brass Co. Fluid valve. 3,221,773, 12-7-65, Cl. 137-6374.

Kass, Gus S., to Hazel Bishop Inc. Silicone composition. 3,185,627, 5-25-65, Cl. 167-90.

Kass, Robert E.: See—

Lavin, Edward, Kass, and Markhart. 3,207,626.

Lavin, Edward, Markhart, and Kass. 3,190,856.

Kass, Robert E., A. H. Markhart, and E. Lavin, to Shawinigan Resins Corp. Aqueous coating composition of dialdehyde, a pentaerythritol and half ester and process of insulating wire therewith. 3,164,561, 1-5-65, Cl. 260-292.

Kassack, Fritz: See—

Windemuth, Erwin, and Kassack. 3,202,636.

Kassat, Harry, to GEA Luftkühlergesellschaft Happel Gesellschaft. Air cooled condenser for distilling apparatus. 3,175,960, 3-30-65, Cl. 202-189.

Kassenbeck, Paul, to Institut Textile de France. Silent electric discharge dyeing of wool. 3,179,482, 4-20-65, Cl. 8-2.

Kassinger, Rudolph: See—

Vesterdal, Hans G., and Kassinger. 3,223,632.

Kast, Howard B., to General Electric Co. Fluid pressure and spring biased sealed flow control valve. 3,212,752, 10-19-65, Cl. 251-175.

Kastan, Howard, to Lockheed Aircraft Corp. Fuel tank. 3,208,696, 9-28-65, Cl. 244-135.

Kastelic, Frank L., and P. M. Relf, to Harris-Intertype Corp. Pile elevator. 3,172,658, 3-9-65, Cl. 271-62.

Kasten, John E. Screw conveyor for feed mixer. 3,185,449, 5-25-65, Cl. 259-6.

Kasten Mfg. Corp.: See—

Towne, Delbert D. 3,176,812.

Towne, Delbert D. 3,223,264.

Kasten, Walter, to The Bendix Corp. Fuel filter water separator element. 3,189,182, 6-15-65, Cl. 210-492.

Kasten, Walter, to The Bendix Corp. Anti-icing filtration unit. 3,200,948, 8-17-65, Cl. 210-184.

Kasten, Walter, to The Bendix Corp. Filter assembly with means to regulate axial compression. 3,207,311, 9-21-65, Cl. 210-137.

Kasten, Walter, to The Bendix Corp. Filter unit. 3,216,572, 11-9-65, Cl. 210-97.

Kasten, Walter, to The Bendix Corp. Fuel quality testing device. 3,223,241, 12-14-65, Cl. 210-96.

Kasten, Walter, and R. L. Landree, to The Bendix Corp. Unitary contamination sensitive fuse and separator element assembly. 3,182,800, 5-11-65, Cl. 210-96.

Kasting, Howard E., to Union Carbide Corp. Thermoplastic film bag. 3,220,601, 11-30-65, Cl. 229-62.5.

Kasting, Howard E., to Union Carbide Corp. Closure structure for thermoplastic bag. 3,220,636, 11-30-65, Cl. 229-57.

Kasting, Howard E., and J. P. Sachs, to Union Carbide Corp. Thermoplastic bag. 3,220,635, 11-30-65, Cl. 229-57.

Kastl, Charles L. Abrading machine tool. 3,222,826, 12-14-65, Cl. 51-358.

Kastl, Uwe: See—

Silberkuhl, Wilhem J., Kastl, and Haussler. 3,207,054.

Kastner, Edward C., and D. L. Dugger, to The Akron Standard Mold Co. Stock cutter-stacker and method. 3,219,338, 11-23-65, Cl. 270-31.

Kasulis, Anthony S. Pneumatic exerciser with pressure gauge. 3,174,343, 3-23-65, Cl. 73-379.

Katagata, Zenji, and N. Masuda, to Dinki Onkyo Kabushiki Kaisha. Transmitted facsimile data transmission system using glow tube and electrofax paper. 3,219,755, 11-23-65, Cl. 178-6.6.

Katagiri, Nobuhiko: See—

Aizawa, Bunji, and Katagiri. 3,169,519.

Katagiri, Shinjiro, and S. Ozasa, to Kabushiki Kaisha Hitachi Selsakusho. Apparatus for producing electron microscope and diffraction images separately and simultaneously on the image plane. 3,225,192, 12-21-65, Cl. 250-49.5.

Katagiri, Yasohachi: See—

Miyagawa, Kiyoshi, and Katagiri. 3,185,987.

Katakami, Morisaburo, to Kabushiki Kaisha Yokogawa Denki Selsakusho (Yokogawa Electric Works Ltd.). Measuring-counting system for determining and control-circuit for continuously providing exact multiple of unknown frequency input. 3,219,935, 11-23-65, Cl. 328-28.

Katano, Hamako: See—

Nakanishi, Kazuo, Katano, and Mizushima. 3,215,685.

Kataoka, Takashi: See—

Koibuchi, Masao, and Kataoka. 3,167,450.

Katayama, Mitsuhiko: See—

Yabuta, Teiji, Hiroshi Ikeda, Shiroyanagi, Hatsuko Ikeda, Fujimaki, Katayama, Tsuji, and Sato. 3,221,009.

Katayama Rivet & Screw Industrial Co., Ltd.: See—

Sato, Teiji. 3,217,530.

Katchalski, Efraim, and E. (Atara) Bar-El. Water insoluble modified enzymes. 3,167,485, 1-26-65, Cl. 195-63.

Katchalsky, Aharon, D. Vofsi, and J. I. Padova. Process for the preparation of adiponitrile by dimerization of acrylonitrile. 3,193,574, 7-6-65, Cl. 260-465.8.

Katchman, Arthur, and G. D. Cooper, to General Electric Co. Process for preparing organopolysiloxanes. 3,175,994, 3-30-65, Cl. 260-46.5.

Katchur, Michael, Jr. L.P. gas asphalt slick iron. 3,71,466, 3-2-65, Cl. 158-13.6.

Kater, Joseph A., to Bell Telephone Laboratories, Inc. Hermetically sealed capacitor. 3,177,415, 4-6-65, Cl. 317-261.

Kates, Guy S., Jr., to E. I. du Pont de Nemours & Co. Method and apparatus for drawing-frame blending of slivers in the preparation of yarn composed of different lengths of fibers. 3,216,064, 11-9-65, Cl. 19-243.

Kates, Maurice, to Curtiss-Wright Corp. Miniaturized electrical apparatus with combined heat dissipating and insulating structure. 3,187,226, 6-1-65, Cl. 317-100.

Kates, Robert A. Portable hunter's blind stand. 3,220,766, 11-30-65, Cl. 297-184.

Kates, W. A. Co.: See—

Kates, Willard A. 3,223,115.

Kates, Willard A., to W. A. Kates Co. Flow regulating apparatus. 3,223,115, 12-14-65, Cl. 137-501.

Kath, Alfred W., to R. P. Scherer Corp. Multidose jet injector. 3,202,151, 8-24-65, Cl. 128-173.

Kato, Akira: See—

Hoshino, Sholchiro, and Kato. 3,223,838.

Kato, Akira, to Mitsubishi Shipbuilding & Engineering Co., Ltd. Spinning pot of centrifugal spinning machine. 3,205,645, 9-14-65, Cl. 57-76.

Kato, Akira, and R. Kanasaki, to Mitsubishi Shipbuilding & Engineering Co., Ltd. Spinning machine utilizing centrifugal force and flow of air. 3,217,483, 11-16-65, Cl. 57-76.

Kato, Masaji: See—

Sumiki, Yusuke, Umezawa, Fukunaga, Yonehara, Kubo, Fujita, Shirato, Takaga, Kato, Esumi, and Ono. 3,183,153.

Tsunoda, Yoshio, Seko, Kato, Misumi, Mitulsi, and Toyoda. 3,201,389.

Kato, Masumi, and Y. Amano, to Nippon Denso Kabushiki Kaisha. Driving device for a window wiper. 3,197,796, 8-3-65, Cl. 15-250.17.

Kato, Mikio: See—

Fukaya, Toshitada, Kato, and Ito. 3,175,910.

Kato, Takeshi, and K. Matsuda, to Yawata Iron & Steel Co., Ltd. Process for producing a low-temperature tough steel. 3,208,844, 9-28-65, Cl. 75-49.

Kato, Tetsuya: See—

Tsuchiya, Yoshio, Takenishi, Kato, Mori, Yoshikawa, and Ichikawa. 3,201,388.

Tsuchiya, Yoshio, Hayashi, Kato, Yoshikawa, Mori, and Miyasaka. 3,215,687.

Kato, Tsuneo, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for simultaneously producing pure and crude magnesium hydroxide from sea water. 3,197,282, 7-27-65, Cl. 23-201.

Kato, Yoshiaki: See—

Tanaka, Kazuo, and Kato. 3,192,701.

Kato, Yoshiaki, and K. Tanaka. Mechanical vibrator for time base. 3,192,702, 7-6-65, Cl. 58-23.

Katoh, Hideo. Dual seat assembly for flush type toilet. 3,210,777, 10-12-65, Cl. 4-235.

Katra, Zbigniew: See—

Wesolowski, Korneliusz K., Ryzek, Tochowicz, Katra, Grabowski, Godek, Michalski, and Kijak. 3,203,786.

Kata, Adriaan: See—

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Katsuya, Noboru: See—

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Kattau, Richard W.: See—

Mills, Jack, and Kattau. 3,225,096.

Kattelmann, Harry R.: See—

Stickel, Herbert P., and Kattelmann. 3,214,163.

Katulleh, Rudolph. Mirror for vehicles. 3,170,985, 2-23-65, Cl. 88-87.

Katz, Alex J., to Super Sagless Spring Corp. Extensible pull out or davenport beds. 3,173,154, 3-16-65, Cl. 5-13.

Katz, Alex J., to Super Sagless Spring Corp. Beds. 3,184,765, 5-25-65, Cl. 5-67.

Katz, Alexander, to EFKA Plastic Corp. Plastic die-molding apparatus. 3,200,439, 8-17-65, Cl. 18-4.

Katz, David. Parenteral infusion apparatus having a separable, coupling means. 3,196,872, 7-27-65, Cl. 128-214.

Katz, David. Antiskid means for automotive vehicles. 3,205,930, 9-14-65, Cl. 152-226.

Katz, Harry S., and J. V. Milewski, to Thikol Chemical Corp. Composite heat shield. 3,203,849, 8-31-65, Cl. 161-96.

Katz, Helmut, to Siemens & Halske Aktiengesellschaft. Ceramic tube with self-supporting frame grid electrode system. 3,214,625, 10-26-65, Cl. 313-260.

Katz, Herbert M., to United States of America, Atomic Energy Commission. Separation of stainless steel from a nuclear fuel. 3,165,377, 1-12-65, Cl. 23-14.5.

Katz, Irving. Anti-skid device. 3,205,929, 9-14-65, Cl. 152-187.

Katz, Jack. Dispenser for cigarette packages, or the like. 3,194,402, 7-13-65, Cl. 211-49.

Katz, Jacob. Lubricants containing amine salts of N-substituted pyrrolidone carboxylic acids. 3,218,264, 11-16-65, Cl. 252-336.

Katz, Joseph J., to United States of America, Atomic Energy Commission. Separation of ruthenium from aqueous solutions. 3,202,479, 8-24-65, Cl. 23-140.

Katz, Kurt, to United States of America, Atomic Energy Commission. Fuel element. 3,167,482, 1-26-65, Cl. 176-68.

Katz, Leonhard: See—

Sununu, John H., and Katz. 3,215,194.

Katz, Leonhard, to Astro Dynamics, Inc. Stacked-fin heat sink. 3,205,936, 9-14-65, Cl. 165-80.

Katz, Leonhard, to Astro Dynamics, Inc. Heat sink for electronic devices. 3,216,496, 11-9-65, Cl. 165-185.

Katz, Leonhard, and S. Schweitzer, to Astro Dynamics, Inc. Heat radiator and electric connection apparatus for rectifiers and the like. 3,187,087, 6-1-65, Cl. 174-70.

Katz, Lester, and J. J. Nichols, to United States of America, National Aeronautics and Space Administration. Force measuring instrument. 3,212,325, 10-19-65, Cl. 73-88.5.

Katz, Norman H., and E. G. Kendall, to North American Aviation, Inc. Coated crucible and crucible and mold coating method. 3,180,632, 4-27-65, Cl. 263-48.

Katz, Ronald A.: See—

Goldman, Robert N., and Katz. 3,212,062.

Katz, Ronald M., D. A. Koslow, and M. O. Flower, to Max Factor & Co. Lipstick cup locking device. 3,217,869, 11-16-65, Cl. 206-56.

Katz, Solomon, to Strick Trailers, a Division of Fruehauf Trailer Co. Mobile warehouse system. 3,211,313, 10-12-65, Cl. 214-515.

Katz, William J.: See—

Lind, Arthur C., Katz, and Mancini. 3,215,276.

Katzbeck, Walter J., and R. R. Gabel, to Corn Products Co. Self-propelling liquid textile sizing composition. 3,181,961, 5-4-65, Cl. 106-213.

Katzen, Raphael. Fluid mixer. 3,190,618, 6-22-65, Cl. 259-4.

Katzen, Raphael. Process for the preparation of bagasse fibers. 3,216,886, 11-9-65, Cl. 162-28.

Katzenberger, Clarence G. Convertible tractor. 3,170,531, 2-23-65, Cl. 180-9.2.

Katzenberger, Edward F., to United Aircraft Corp. Expandable pod for a helicopter. 3,212,737, 10-19-65, Cl. 244-137.

Katzenberger, Ralph H., to Schwitzer Corp. Vibration damper. 3,174,360, 3-23-65, Cl. 74-574.

Katzenstein, Henry S.: See—

Sullivan, Herbert W., and Katzenstein. 3,174,141.

Katzenstein, Miles. Centrifugal clutch. 3,175,666, 3-30-65, Cl. 192-103.

Katzer, Albert E., and R. O. Houghtaling, to General Motors Corp. Method of joining metals. 3,214,564, 10-26-65, Cl. 219-92.

Katzfey, James M.: See—

Amthor, Franklin R., Jr., Katzfey, Kanitz, Schaefer, Kodet, and Haban. 3,225,937.

Katzfey, James M., and L. A. Puls, to Hamilton Mfg. Co. Fume hood construction. 3,217,630, 11-16-65, Cl. 98-115.

Katzin, Leonard: See—

Eledge, William C., and Katzin. 3,199,066.

Jordan, William D., Jr., and Katzin. 3,206,648.

Katzin, Leonard, to The Bunker-Ramo Corp. Electronic circuit modules having cellular bodies and method of making same. 3,198,990, 8-3-65, Cl. 317-100.

Katzin, Leonard, to The Bunker-Ramo Corp. Modular circuit fabrication. 3,219,586, 11-23-65, Cl. 317-101.

Katzmann, Fred L., to Fairchild Camera and Instrument Corp. Single electron gun time sharing oscilloscopes. 3,178,606, 4-13-65, Cl. 315-22.

Katzmann, Fred L., to Fairchild Camera and Instrument Corp. Combined traveling wave and cathode ray oscilloscope tube. 3,205,397, 9-7-65, Cl. 315-3.

Katzschmann, Ewald, to Chemische Werke Witten G.m.b.H. Process for purification of terephthalic acid. 3,215,734, 11-2-65, Cl. 260-525.

Katzschner, Wolfgang, to Felten & Guillaume Carlswerk Aktiengesellschaft. Submersible double cylindrical container with outer welded covers. 3,201,508, 8-17-65, Cl. 174-50.51.

Kauczor, Hans-Werner: See—

Klein, Alfons, and Kauczor. 3,174,933.

Simmler, Walter, and Kauczor. 3,174,987.

Kauder, Otto S., to Argus Chemical Corp. Polyvinyl chloride stabilized with a combination of organo-tin compounds and aromatic nitrogen compounds. 3,222,317, 12-7-65, Cl. 260-45.75.

Kauders, Herbert J., and E. A. Cufone, to The American Agricultural Chemical Co. Conversion of ammonium fluoride to ammonium bifluoride by subatmospheric evaporation of an aqueous solution of ammonium fluoride. 3,212,849, 10-19-65, Cl. 23-88.

Kauer, Erhard, K. Groth, and H. Horster, to North American Phillips Co., Inc. Incandescent radiator. 3,206,631, 9-14-65, Cl. 313-14.

Kauer, George C., Jr., and L. E. Brooks, to Air Techniques, Inc. Automatic condensate-removal valve. 3,175,572, 3-30-65, Cl. 137-204.

Käufer, Helmut: See—

Schwab, Richard, Birk, and Käufer. 3,170,382.

Käufer, Helmut, to Agfa Aktiengesellschaft. Process and apparatus for the separation of solid particles. 3,193,411, 7-6-65, Cl. 134-33.

Käufer, Helmut, to Agfa Aktiengesellschaft. Device for printing characters photographically. 3,213,770, 10-26-65, Cl. 95-4.5.

Kauffman, Ivan L., to Ex-Cell-O Corp. Y-slot blank cutting machine. 3,196,704, 7-27-65, Cl. 83-345.

Kauffman, John H., to Herbert Simpson Corp. System for feeding and transporting materials. 3,197,260, 7-27-65, Cl. 302-55.

Kauffman, John H., to Herbert Simpson Corp. System for feeding and transporting materials. 3,197,261, 7-27-65, Cl. 302-55.

Kauffman, Samuel H., and F. D. Vogel, to United States of America, Navy. Method for testing ordnance seals. 3,174,329, 3-23-65, Cl. 73-40.7.

Kauffmann, John A., to International Business Machines Corp. Magnetic universal logical circuit. 3,226,699, 12-28-65, Cl. 340-174.

Kauffungen, Rudolf: See—

Bloehlinger, Hans, and Kauffungen. 3,165,709.

Kaufman, Arthur L., to Bohn Business Machines, Inc. Heating control device. 3,164,717, 1-5-65, 219-388.

Kaufman, Bruce A., to The National Cash Register Co. Tunnel diode systems for pulse logic. 3,169,198, 2-9-65, Cl. 307-88.5.

Kaufman, Bruce A., and J. S. Hammond, III, to The National Cash Register Co. Tunnel diode discrimination circuitry. 3,211,921, 10-12-65, Cl. 307-88.5.

Kaufman, Charles W., to Commercial Solvents Corp. Ammonium nitrate-chromate salt explosive compositions. 3,166,450, 1-19-65, Cl. 149-46.

- Kaufman, David M.: See—
Kaufman, Stanley R. and D. M. 3,182,351.
Kaufman, Edwin N., to Litton Systems, Inc. Analogue-to-digital converter. 3,211,897, 10-12-65, Cl. 235-154.
Kaufman, Herman S.: See—
Burton, William P., Kaufman, Lefrancois, and Riblett. 3,173,856.
Kaufman, Irving, to Thompson Ramo Wooldridge Inc. Harmonic generator utilizing a nonlinear reactance. 3,165,690, 1-12-65, Cl. 321-69.
Kaufman, Irving, to TRW Inc. Microwave electron discharge device having annular resonant cavity. 3,219,873, 11-23-65, Cl. 315-5.25.
Kaufman, Irving, and W. H. Stetler, to TRW Inc. Electromagnetic wave energy filtering. 3,212,034, 10-12-65, Cl. 333-73.
Kaufman, Irving, and R. V. Langmuir, to TRW Inc. Microwave power generating by periodic sweep of electron beam along length of resonant waveguide. 3,221,207, 11-30-65, Cl. 315-5.25.
Kaufman, Jules A.: See—
John, Charles, Jr., and Kaufman. 3,168,770.
Kaufman, Kurt D. Preparation of alkyl psoralens. 3,201,421, 8-17-65, Cl. 260-343.2.
Kaufman, Lawrence: See—
Robinson, Donald W., Jr., Schultz, and Kaufman. 3,212,082.
Kaufman Mfg. Co.: See—
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Kaufman, Martin H., to United States of America, Navy. Burn inhibitor for fluorocarbon bound propellants. 3,202,557, 8-24-65, Cl. 149-109.
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- Keel, Leo F., M. F. Hoffman, R. J. McCullough, P. A. McCormack, and R. L. W. Holmes, to Union Carbide Corp. Method of purging mold and pouring metal therein. 3,174,200, 3-23-65, Cl. 22-214.
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- Watt, William D., Jr. 3,191,215.
- Keeler, Eugene R.: See—
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- Keeler, Jack D., to Norfin, Inc. Plate-gripping mechanism for offset printing cylinder. 3,202,098, 8-24-65, Cl. 101-415.1.
- Keeler, William R.: See—
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- Vincent, Robert E., and Keeler. 3,205,934.
- Keeler, George F. Method of making honeycomb core. 3,200,489, 8-17-65, Cl. 29-470.9.
- Keeler, George F. Method for joining metal pieces at spaced intervals. 3,206,847, 9-21-65, Cl. 29-480.
- Keeley, Kedric V., Sr. High speed current interrupting electric fuses. 3,179,773, 4-20-65, Cl. 200-120.
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- Keen, Henry S., to Cutler-Hammer, Inc. Microwave rotary joint. 3,199,055, 8-3-65, Cl. 333-98.
- Keen, Henry S., to United States of America. Air Force. Tunable resonant ring utilizing strip transmission line. 3,222,624, 12-7-65, Cl. 333-82.
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- Keen, James L., to General Mills, Inc. Flootation separation of particulate materials in non-aqueous media. 3,186,546, Cl. 209-166.
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- Keen, John R., to D. Napier & Son Ltd. De-icing. 3,183,975, 5-18-65, Cl. 107-135.22.
- Keen, Lester K., to Raybestos-Manhattan, Inc. Method of making a metal reinforced plastic article. 3,223,763, 12-14-65, Cl. 264-112.
- Keen, Norman J.: See—
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- Keen, Thomas H., to G. K. N. Steel Co. Ltd. Apparatus for charging open-hearth furnaces. 3,212,653, 10-19-65, Cl. 214-18.
- Keen, William R., to Collins and Alkman Corp. Apparatus for producing composite yarn. 3,176,351, 4-6-65, Cl. 19-236.
- Keenan, John G., to Rolls-Royce Ltd. High speed aircraft. 3,212,734, 10-19-65, Cl. 244-53.
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- Keenan, Vincent J., and E. S. Wheeler, to The Atlantic Refining Co. Esters of hydroxymethyl-dimethyl-meta-dioxane. 3,194,815, 7-13-65, Cl. 260-340.7.
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- Keene, Carl E. Printed circuit board provided with a junction circuit breaker having a slidable and rotatable armature. 3,170,056, 2-16-65, Cl. 200-168.
- Keene, Frederick J., to E. I. du Pont de Nemours and Co. Plasticized polyvinyl alcohol. 3,219,613, 11-23-65, Cl. 260-30.2.
- Keene, George W. Animal rubbing and liquid applying apparatus. 3,176,658, 4-6-65, Cl. 119-157.
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- Keesling, Thomas B., to FMC Corp. Fruit processing method. 3,225,892, 12-28-65, Cl. 198-33.
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- Kefenstein, Horst-Guenter, and W. Hussar, to Reifenbauser Kommanditgesellschaft. Apparatus for cutting a moving sheet. 3,213,735, 10-26-65, Cl. 83-353.
- Kegel, Francis C., to APF Industries, Inc. Sectional counter for tellers and the like. 3,202,468, 8-24-65, Cl. 312-140.1.
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- Kehler, Paul, to Phillips Petroleum Co. Method of determining density utilizing a gamma ray source and a pair of detectors. 3,202,822, 8-24-65, Cl. 250-83.3.
- Kehler, Alan B., to United States of America, National Aeronautics and Space Administration. Parachute glider. 3,170,660, 2-23-65, Cl. 244-152.
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Parker, Fred D. 3,203,695.
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- Kehr, Günther, and C. H. Wichmann. Burring and finishing machine. 3,177,773, 4-13-65, Cl. 90-1.4.
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- Kelley, Everett J., and H. R. Moody, to Rohm & Haas Co. Process for purifying acrylamide or α -methacrylamide. 3,196,178, 7-20-65, Cl. 260-561.
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- Kelley, Hugh, to The J. B. Ehrsam & Sons Mfg. Co. Board binder. 3,195,287, 7-20-65, Cl. 53-137.
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- Kelley, Leon O. Pipe and/or cable laying device. 3,170,301, 2-23-65, Cl. 61-72.6.
- Kelley, Oliver K., to General Motors Corp. Multiple stage torque converter drive. 3,164,034, 1-5-65, Cl. 74-732.
- Kelley, Oliver K., to General Motors Corp. Governor for automatic transmissions. 3,212,514, 10-19-65, Cl. 137-56.
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- Kellner, Jackson M., J. E. Reed, and A. B. Hildebrandt, to Jersey Production Research Co. Borehole drilling system. 3,180,436, 4-27-65, Cl. 175-157.
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- Kerr, Robert J. Tinting device adapter. 3,187,787, 6-8-65, Cl. 141-348.
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- Kerridge, Norman E., to Stothert & Pitt, Ltd. Slewing and erecting motor for tower cranes. 3,193,109, 7-6-65, Cl. 212-68.
- Kerrigan, James E., and R. Grikis, to Chicago Printed String Co. Bow-forming machine. 3,223,299, 12-14-65, Cl. 223-46.
- Kerris, Wolfram E. K., to Lockheed Aircraft Corp. Electrical primary flight control system utilizing redundant channels. 3,198,082, 8-3-65, Cl. 91-1.
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- Kersey, Albert H., and F. J. Smith, to Ford Motor Co. Transmission systems, particularly for agricultural tractors. 3,175,424, 3-30-65, Cl. 74-740.

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- Kershner, Osborn A., to Lambert Brake Corp. Brake structure. 3,184,003, 5-18-65, Cl. 188-73.
- Kershner, Osborn A., and R. C. Price, to Lambert Brake Corp. Wedge operated spot brake. 3,194,349, 7-13-65, Cl. 188-73.
- Kershner, Richard B., and F. H. Swalm, to United States of America, Navy. Jet control by rotatable offset nozzle. 3,165,889, 1-19-65, Cl. 60-35.55.
- Kerst, Donald W., and T. Ohkawa, to General Dynamics Corp. Fusion research apparatus. 3,194,739, 7-13-65, Cl. 178-1.
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- Kesselring, Fritz, E. Gisiger, and L. Seguin, to Siemens-Schuckertwerke Aktiengesellschaft. Synchronous-type circuit interrupter with holding magnet for releasing latching means. 3,215,797, 11-2-65, Cl. 200-91.
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- Ketterer, Stanley J., M. F. Ivanko, J. J. Dolney, and W. B. Straff, to The Singer Co. Chain stitch device for lock stitch sewing machines. 3,194,197, 7-13-65, Cl. 112-168.
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- Kice, Russell W., and J. W. 3,198,584.
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- Kilmer, George McQ. Come apart bicycle. 3,164,397, 1-5-65, Cl. 280-287.
- Kilmer, George McQ. Bicycle split axle. 3,220,784, 11-30-65, Cl. 308-192.
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- Kimball, Alvion L., to General Electric Co. Support for large machinery. 3,190,041, 6-22-65, Cl. 50-185.
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- Kingold, Robert J., to AMP Inc. Electrical connector and assembly thereof. 3,202,954, 8-24-65, Cl. 339-47.
- Kingold, Robert J., to AMP Inc. Connector block assembly. 3,215,975, 11-2-65, Cl. 339-256.
- Kinkaid, Robert J., and R. H. Frantz, to AMP Inc. Connector with tab terminal latching means. 3,173,737, 3-16-65, Cl. 339-176.
- Kinkaid, Alan, and R. L. Stone, to William Wallace Corp. Prefabricated metal chimney. 3,170,544, 2-23-65, Cl. 189-27.
- Kinkaid, Alan, and R. L. Stone, to William Wallace Corp. Knocked-down chimney housing. 3,173,354, 3-16-65, Cl. 98-46.
- Kinkel, Ernst, H. Seiz, and H. Jerenz, to Agfa Aktiengesellschaft. Process for production of photographic silver halide emulsions. 3,178,294, 4-13-65, Cl. 96-115.
- Kinkel, Klaus: See—
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- Kinker, Clarence C., to Owens-Illinois Glass Co. Apparatus for collecting stacking and handling sheet material. 3,164,270, 1-5-65, Cl. 214-6.

- Kinker, Clarence C., to Owens-Illinois Glass Co. Sheet stacking and handling apparatus. 3,208,603, 9-28-65, Cl. 214-6.
- Kinker, Clarence C., to Owens-Illinois Glass Co. Method and apparatus for handling sheet materials. 3,224,307, 12-21-65, Cl. 83-35.
- Kinkle, Robert A., to General Electric Co. Oven door window. 3,177,334, 4-6-65, Cl. 219-10.55.
- Kinkopf, Edward J., to The Alliance Machine Co. Charging device for converters. 3,223,257, 12-14-65, Cl. 214-18.
- Kinley, John C.: See—
Kinley, Myron M. 3,199,594.
- Kinley, John C. Explosive means for tubing perforator and the like. 3,199,287, 8-10-65, Cl. 60-26.1.
- Kinley, John C. Wire line shooting tool. 3,199,593, 8-10-65, Cl. 166-34.6.
- Kinley, Myron M. Explosive-actuated apparatus for taking cores. 3,172,486, 3-9-65, Cl. 175-4.
- Kinley, Myron M. Method and apparatus for setting liners in tubing. 3,191,877, 6-29-65, Cl. 166-14.
- Kinley, Myron M., to J. C. Kinley. Explosive jar. 3,199,594, 8-10-65, Cl. 166-63.
- Kinna, Martin A., and S. P. Prosen, to United States of America, Navy. Plastics projector charge cartridge case. 3,207,074, 9-21-65, Cl. 102-44.
- Kinnard, Claiborne H., to Span-Deck, Inc. Apparatus for forming concrete planks or slabs having acoustical properties. 3,217,375, 11-16-65, Cl. 25-41.
- Kinnard, Wolcott S. Method and apparatus for measuring light. 3,187,652, 6-8-65, Cl. 95-10.
- Kinneer, Alan M. Gas sampling apparatus. 3,223,489, 12-14-65, Cl. 23-255.
- Kinneer, Arthur M. G., and T. H. Bull, to Imperial Chemical Industries Ltd. Method of treating filamentary tows. 3,176,374, 4-6-65, Cl. 28-72.
- Kinneer, Joseph D. Electrical fuse mounting. 3,171,002, 2-23-65, Cl. 200-133.
- Kinney, David W., to Union Insulating Co., Inc. Nail-fastened insulated outlet box. 3,176,869, 4-6-65, Cl. 220-3.9.
- Kinney, Mel E.: See—
Rolph, Donald L., and Kinney. 3,202,878.
- Kinney, S. P., Engineers, Inc.: See—
Carr, Hugh B. 3,171,442.
Carr, Hugh B. 3,204,483.
Kinney, Selwyn P. 3,220,715.
- Kinney, Selwyn P., to S. P. Kinney Engineers, Inc. Checker block and checker construction made therefrom. 3,220,715, 11-30-65, Cl. 263-51.
- Kinnicutt, Roger, Jr., and A. G. Stauble, to Morgan Construction Co. Turnover apparatus for billets and the like. 3,181,709, 5-4-65, Cl. 214-1.
- Kinlison, Court J., to Western Piping & Engineering Co., Inc. Exhaust system for vehicles. 3,173,710, 3-16-65, Cl. 285-9.
- Kino, Gordon S.: See—
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- Kinoshita, Shukuo, H. Samejima, C. Fujita, and T. Nara, to Kyowa Hakko Kogyo Co., Ltd. Method of producing L-homoserine by fermentation. 3,189,526, 6-15-65, Cl. 195-29.
- Kinoshita, Shukuo, and O. Terada, to Kyowa Hakko Kogyo Co., Ltd. Method for preparing 5-ketofructose by fermentation. 3,206,375, 9-14-65, Cl. 195-31.
- Kinoshita, Shukuo, K. Tanaka, K. Oshima, and K. Kimura, to Kyowa Hakko Kogyo Co. Ltd. Fermentative production of substances relating to nucleic acid. 3,214,844, 10-28-65, Cl. 195-28.
- Kinoshita, Shukuo, K. Tanaka, K. Oshima, and K. Kimura, to Kyowa Hakko Kogyo Co. Ltd. Method for producing glutamine by fermentation process. 3,216,906, 11-9-65, Cl. 195-29.
- Kinoshita, Shukuo, K. Tanaka, S. Ueda, and S. Akita, to Kyowa Hakko Kogyo Co. Ltd. Microbiological production of amino acid by reductive amination. 3,220,929, 11-30-65, Cl. 195-29.
- Kinralde, William T. R. Load carrying and rescue sled. 3,222,080, 12-7-65, Cl. 280-18.
- Kins Developments Ltd.: See—
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- Kinsella, John J., to Xerox Corp. Apparatus for automatic fabrication of microcircuitry. 3,219,509, 11-23-65, Cl. 156-345.
- Kinsella, John J., and F. A. Schwartz, to Xerox Corp. Printed circuits with resistive and capacitive elements. 3,217,209, 11-9-65, Cl. 317-101.
- Kinser, Charles F., and W. Lach, to Western Electric Co., Inc. Article straightening device. 3,185,186, 5-25-65, Cl. 140-147.
- Kinsey, Clifford J.: See—
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- Kinsey, Clifford J., to Sta-Rite Products, Inc. Milking system. 3,211,171, 10-12-65, Cl. 137-394.
- Kinsey, Edward C., to The Athlete Builder Corp. Exercise apparatus. 3,207,512, 9-21-65, Cl. 272-80.
- Kinsey, Kathleen: See—
Kinsey, Ronald W. S., and Childs. 3,170,992.
- Kinsey, Ronald W. S., deceased, by K. Kinsey and J. M. E. Childs, administratrixes, to Associated Electrical Industries Ltd. Selective electrical marking arrangements. 3,170,992, 2-23-65, Cl. 179-18.
- Kinsey, Roy L.: See—
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- Kinsler, Robert J.: See—
Abbott, Daniel B., and Kinsler. 3,194,266.
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- Kinsley, Samuel E., to General Foods Corp. Process for producing a quick-cooking pasta-type product. 3,192,049, 8-29-65, Cl. 99-85.
- Kinsman, Calvin T. Portable head rests and blanks therefor. 3,173,721, 3-16-65, Cl. 297-397.
- Kinsman, Frank W. Fluid clutch-brake. 3,166,167, 1-19-65, Cl. 192-18.
- Kinsman, William P. C.: See—
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- Kinstler, Robert C., to American Cyanamid Co. Process for preparing 3-substituted 2-thiazolidinethiones. 3,215,704, 11-2-65, Cl. 260-306.7.
- Kinsworthy, Donald D.: See—
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- Kinsworthy, Donald D., to The Lau Blower Co. Air moving device. 3,223,313, 12-14-65, Cl. 230-117.
- Kint, Leonard N.: See—
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- Kintigh, Stanley S.: See—
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- Kintigh, Stanley S., to Honeywell Inc. Control devices. 3,190,609, 6-22-65, Cl. 251-134.
- Kintner, Mildred M. Fastening means. 3,196,511, 7-27-65, Cl. 24-204.
- Kintner, Paul M., to Cutler-Hammer, Inc. Control modules and circuits. 3,189,755, 6-15-65, Cl. 307-88.5.
- Kintner, Paul M., to Cutler-Hammer, Inc. Pulse encoder. 3,189,902, 6-15-65, Cl. 343-102.
- Kintner, Paul M., to Cutler-Hammer, Inc. Transistor time delay circuits. 3,197,656, 7-27-65, Cl. 307-88.5.
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- Kintzer, Nicholas D.: See—
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- Kinzbach, Robert B. Casing cutter and milling tool. 3,220,478, 11-30-65, Cl. 166-55.8.
- Kinzelman, Joseph, to Gasway Corp. Method and apparatus for flow coating objects. 3,205,069, 9-7-65, Cl. 117-105.3.
- Kip, Inc.: See—
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- Kiper, Gerd, to Agfa Aktiengesellschaft. Light controlled shutter. 3,165,989, 1-19-65, Cl. 95-10.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Shutter control structure for cameras. 3,165,994, 1-19-65, Cl. 95-63.
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- Kiper, Gerd, to Agfa Aktiengesellschaft. Retarding device for photographic shutter. 3,187,655, 6-8-65, Cl. 95-63.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Exposure-controlling structure for cameras. 3,196,771, 7-27-65, Cl. 95-64.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Between-the-lens shutter for single-lens reflex cameras. 3,198,109, 8-3-65, Cl. 95-63.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Camera shutter. 3,199,428, 8-10-65, Cl. 95-62.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Camera capable of being manually and automatically operated. 3,203,330, 8-31-65, Cl. 95-64.
- Kiper, Gerd, to Agfa Aktiengesellschaft. Shutter assembly for cameras. 3,205,805, 9-14-65, Cl. 95-63.
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- Kiper, Gerd, to Agfa Aktiengesellschaft. Between-the-lens shutter assemblies for photographic cameras. 3,218,949, 11-23-65, Cl. 95-63.
- Kiper, Gerd, and R. Denk, to Agfa Aktiengesellschaft. Camera with means for automatically introducing into the same the factor of film speed. 3,165,990, 1-19-65, Cl. 95-10.
- Kiper, Gerd, and R. Kremp, to Agfa Aktiengesellschaft. Combined shutter and diaphragm assembly for cameras. 3,165,996, 1-19-65, Cl. 95-64.
- Kiper, Gerd, and W. Kaden, to Agfa Aktiengesellschaft. Manually and automatically operable camera. 3,190,203, 6-22-65, Cl. 95-64.
- Kiper, Gerd, and G. Mitsch, to Agfa Aktiengesellschaft. Shutter and flash controlling apparatus for cameras. 3,200,721, 8-17-65, Cl. 95-11.5.
- Kipfer, Hugo, to Machine Tool Works Oerlikon, Administration Co. Impact fuze. 3,177,810, 4-13-65, Cl. 102-73.
- Kipnis, Abraham. Means for releasably holding sheets in stack formation. 3,180,493, 4-27-65, Cl. 211-51.
- Kipp, Karl F., and J. A. Santangini, to Western Electric Co., Inc. Chemical polishing machine. 3,203,434, 8-31-65, Cl. 134-57.
- Kipple, Harry P.: See—
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- Kiralfy, Alexander E. Height gauge. 3,224,103, 12-21-65, Cl. 33-172.
- Kiramidjian, Ludwig. Liquid level recording apparatus. 3,169,400, 2-16-65, Cl. 73-290.
- Kirby, Ben H., Jr., and T. James, to Koppers Co., Inc. Coloring of anodized aluminum. 3,172,786, 3-9-65, Cl. 148-6.1.

- Kirby, Charles A., to Allied Building Components, Inc. Expandable closure member. 3,165,144, 1-12-65, Cl. 160-221.
- Kirby, Charles A., to Allied Building Components, Inc. Folding door mounting structure. 3,187,800, 6-8-65, Cl. 160-206.
- Kirby, Colin W.: See—
- Kirby, Kenneth, K. R. T., and C. W. 3,190,194.
- Kirby, Kenneth, K. R. T., and C. W. 3,198,093.
- Kirby, Jack A., 1/2 to Bi/fresh Dispenser Co., and 1/2 to North-west Bi/fresh Dispenser Co. Reusable display and dispensing container. 3,224,822, 12-21-65, Cl. 312-71.
- Kirby, John F. Machine for mounting and proofing printing plates. 3,186,336, 6-1-65, Cl. 101-216.
- Kirby, John H., Jr., to Bowen Tools, Inc. Jet junk basket. 3,198,256, 8-3-65, Cl. 166-99.
- Kirby, Keith R. T.: See—
- Kirby, Kenneth, K. R. T., and C. W. 3,190,194.
- Kirby, Kenneth, K. R. T., and C. W. 3,198,093.
- Kirby, Kenneth, K. R. T., and C. W. (Engineers) Ltd. Apparatus for creasing and/or cutting cardboard and analogous flexible sheet material. 3,190,194, 6-22-65, Cl. 93-58.2.
- Kirby, Kenneth, K. R. T., and C. W., to Kirby's (Engineers) Ltd. Apparatus for creasing and/or cutting cardboard and analogous flexible sheet material. 3,198,083, 8-3-65, Cl. 93-58.2.
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- Kirby, Peter, to Shell Oil Co. Copolymers of dialkenyl phosphorus esters as lubricating oil additives. 3,166,505, 1-19-65, Cl. 252-49.8.
- Kirby, Peter, to Shell Oil Co. Lubricating compositions containing polymeric phosphonites. 3,208,942, 9-28-65, Cl. 252-49.8.
- Kirby, Peter, to Shell Oil Co. Copolymers of alkenyl phosphorus esters as lubricating oil additives. 3,208,943, 9-28-65, Cl. 252-49.8.
- Kirby, Ralph. Pile driving apparatus. 3,172,484, 3-9-65, Cl. 173-43.
- Kirby, Ralph C., to United States of America. Interior, Upgrading primary manganese matte. 3,179,514, 4-20-65, Cl. 75-80.
- Kirby, Robert A., and G. M. Webster, to Esso Production Research Co. Recoilless seismic source. 3,215,223, 11-2-65, Cl. 181-5.
- Kirby, Thomas E., Jr.: See—
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- Kirby, William M.: See—
- Boley, Charles C., Burnell, and Kirby. 3,221,775.
- Kirby's (Engineers) Ltd.: See—
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- Kirch, Walter L., Jr. Wall bracket. 3,174,628, 3-23-65, Cl. 211-123.
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- Meybeck, Jean, Kircher, and Breiss. 3,178,262.
- Kirchgesner, Leo, to Robert Bosch, G.m.b.H. Arrangement for eliminating parasitic waves. 3,178,661, 4-13-65, Cl. 333-79.
- Kirchhoefer, Martin J., to Pulpamac, Inc. Apparatus for continuous gravity feed of fluent materials. 3,190,509, 6-22-65, Cl. 222-450.
- Kirchhubel, Frederick A.: See—
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- Ruckriegel, Raymond J., Kirchhubel, and Moorhead. 3,212,351.
- Kirchhubel, Frederick A., to Texas Instruments Inc. Method of assembling thermostatic switches. 3,164,701, 1-5-65, Cl. 200-138.
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- Cüppers, Curt, and Kirchhubel. 3,201,795.
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- Hartenstein, Raymond G., and Kirchman. 3,199,340.
- Kirchmeyer, Richard C., and W. E. Petersen, to Western Electric Co., Inc. Apparatus for removing strands from articles. 3,195,832, 7-20-65, Cl. 242-129.6.
- Kirchner, Franklin H., to Franklin Coffee Urn Corp. Coffee urn with cover having condensate drain extending therefrom. 3,183,905, 5-18-65, Cl. 126-383.
- Kirchner, Frederick K., and A. W. Zalay, to Sterling Drug Inc. 3-amino-4(3H)-quinazolinones and process. 3,217,005, 11-9-65, Cl. 260-256.4.
- Kirchner, Henry P., to Cornell Aeronautical Laboratory, Inc. Wall structure suitable for exposure to high temperature gas. 3,182,469, 5-11-65, Cl. 62-467.
- Kirchner, Jack R., to E. I. du Pont de Nemours and Co. Production of halopyridine oxides. 3,203,957, 8-31-65, Cl. 260-290.
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- Kirchner, Willi, to Kugelfischer Georg Schaefer & Co. Displacement relay. 3,202,176, 8-24-65, Cl. 187-464.
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- Kirigaya, Kichi: See—
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- Kirk, David Livingstone, to Colgate-Palmolive Co. Process for preparing baked goods utilizing dihydroxyacetone to enhance browning. 3,220,850, 11-30-65, Cl. 99-90.
- Kirk, David N., V. Petrov, and D. M. Williamson, to The British Drug Houses Ltd. 6,16a-dimethyl steroids. 3,168,536, 2-2-65, Cl. 260-397.3.
- Kirk, Douglas, to The Quaker Oats Co. Easy opening container. 3,202,271, 8-24-65, Cl. 206-56.
- Kirk, George A., to General Signal Corp. Servo system for two phase motors. 3,171,076, 2-23-65, Cl. 318-341.
- Kirk, George A., to General Signal Corp. Mounting for electronic components. 3,211,959, 10-12-65, Cl. 317-100.
- Kirk, Harry V., to Cheshire Inc. Address strip feed means for addressing machine. 3,204,553, 9-7-65, Cl. 101-53.
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- Gast, Dwight. 3,203,004.
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- Skonecke, Hubert L., Kirk, and Safford. 3,224,488.
- Kirk, Joseph R., to Atwood Vacuum Machine Co. Automobile rear deck lock. 3,184,936, 6-25-65, Cl. 70-151.
- Kirk, Joseph R., to Atwood Vacuum Machine Co. Foot-operated, hand-released parking brake. 3,194,085, 7-13-65, Cl. 74-540.
- Kirk, Joseph R., A. Y. Dodge, and E. L. Allen, to Atwood Vacuum Machine Co. Trailer brake actuator. 3,175,649, 3-30-65, Cl. 188-112.
- Kirk, Larry D.: See—
- Mustakas, Gus C., and Kirk. 3,173,792.
- Kirk, Roy C., and R. E. Carr, to The Dow Chemical Co. High power output magnesium primary battery. 3,177,099, 4-6-65, Cl. 136-100.
- Kirk, Roy C., and R. E. Carr, to The Dow Chemical Co. High power output magnesium primary battery. 3,185,592, 6-25-65, Cl. 136-100.
- Kirk, Rufus P. Well tool and method of using same. 3,190,357, 6-22-65, Cl. 166-44.
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- Short, Brooks H., and Kirk. 3,202,146.
- Kirk, Thomas E., and G. O. Huntzinger, to General Motors Corp. Semiconductor voltage regulator. 3,173,077, 3-9-65, Cl. 322-73.
- Kirk, Walter B., to Westinghouse Air Brake Co. Fluid pressure brake control apparatus with accelerated release after service application. 3,175,869, 3-30-65, Cl. 303-33.
- Kirk, Walter B., to Westinghouse Air Brake Co. Brake cylinder assembly. 3,183,795, 5-18-65, Cl. 92-212.
- Kirk, William W.: See—
- Devol, James C., and Kirk. 3,177,391.
- Kirkconnell, Robert W., to Nalco Chemical Co. Rubber compositions and forming process. 3,224,998, 12-21-65, Cl. 260-41.5.
- Kirkconnell, Thomas W. Educational teaching and grading machine. 3,175,303, 3-30-65, Cl. 35-9.
- Kirkconnell, Thomas W., and C. D. Tolson. Slide projector with shiftable filters. 3,215,036, 11-2-65, Cl. 85-28.
- Kirkell, Leon H., to Blairville Machine Products Co. Towel dispensing cabinet and control mechanism. 3,198,591, 8-3-65, Cl. 812-38.
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- Carrotte, Frederick H., and Ellis. 3,220,222.
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- Kirkland, Earl V., to Standard Oil Co. Removal of water from monocarboxylic acids by membrane permeation. 3,182,043, 5-4-65, Cl. 260-87.1.
- Kirkland, Earl V., and W. J. Roberts, to Celanese Corp. of America. Segmented oxymethylene block copolymers. 3,219,725, 11-23-65, Cl. 260-823.
- Kirkland, Earl V., and J. F. Jennings, to Standard Oil Co. Separation process. 3,225,107, 12-21-65, Cl. 260-652.
- Kirkland, Walter D., and J. T. Oda, to Abbott Laboratories. Container closure. 3,198,368, 8-3-65, Cl. 215-37.
- Kirkness, Robert H., and C. J. Wayman, to The General Electric Co. Ltd. Electrical coding arrangements of the kind for providing an output that is representative according to a digital code of the magnitude of an input variable. 3,196,426, 7-20-65, Cl. 340-347.

- Kirkpatrick, George M., and L. J. Neelands, to United States of America, Army. Monopulse radar system. 3,170,295, 3-30-65, Cl. 343-16.
- Kirkpatrick, James S. Paring and coring device. 3,164,183, 1-5-65, Cl. 146-204.
- Kirkpatrick, James S., and D. L. Erickson, to Brooks & Perkins, Inc. Flexible overlay forming. 3,222,911, 12-14-65, Cl. 72-363.
- Kirkpatrick, Kenneth L., to Deere & Co. Banker. 3,194,320, 7-13-65, Cl. 172-33.
- Kirkpatrick, Kenneth L., and P. R. Ferris, to Deere & Co. Harvester with shiftable and reversible conveyor means. 3,214,002, 10-26-65, Cl. 198-36.
- Kirkpatrick, Kingston V., to Sperry Rand Corp. Power transmission. 3,204,565, 9-7-65, Cl. 103-136.
- Kirkpatrick, Robert E. Bunk feeder. 3,191,753, 6-29-65, Cl. 198-64.
- Kirkpatrick, Thomas P., to United States of America, Navy. Grounding device for rotating machinery, especially for blowers. 3,189,791, 6-15-65, Cl. 317-2.
- Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Process for breaking petroleum emulsions. 3,166,516, 1-19-65, Cl. 252-344.
- Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Condensation products. 3,166,548, 1-19-65, Cl. 260-97.5.
- Kirkpatrick, Willard H., V. L. Seale, and R. E. Berkley, to Nalco Chemical Co. Emulsifier compositions and uses thereof. 3,169,113, 2-9-65, Cl. 252-8.55.
- Kirkpatrick, Willard H., V. L. Seale, and A. W. Church, to Nalco Chemical Co. Compositions and processes for breaking petroleum emulsions. 3,169,118, 2-9-65, Cl. 252-341.
- Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Hydroxy hydrocarbon N-substituted dialkylene triamines. 3,200,153, 8-10-65, Cl. 260-570.6.
- Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Mono-secondary-hydroxy hydrocarbon N-substituted trialkylene tetramines. 3,200,154, 8-10-65, Cl. 260-570.6.
- Kirkpatrick, Willard H., V. L. Seale, and R. E. Law, to Nalco Chemical Co. Completely N-hydroxyalkylated and completely N-polyoxyalkylated polyhexamethylene polyamines. 3,200,155, 8-10-65, Cl. 260-584.
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- Knapp, William E., and E. F. Wadleton, to Deere & Co. Two-way plow. 3,174,556, 3-23-65, Cl. 172-212.
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- Knight, Clarence E., to Automated Building Components, Inc. Connector. 3,172,171, 3-9-65, Cl. 20-92.
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- Knights, Richard N., and A. Tharratt, to Dowty Rotor Ltd. Jointed structures and method of making joints therefor. 3,217,532, 11-16-65, Cl. 73-103.
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- Knots, Jacob A., to Adriaan Honig's Kunstzaken-Industrie N.V. Method of preparing mixtures containing an amine accelerator. 3,186,960, 6-1-65, Cl. 260-24.
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- Knox, Granville S., to Hydril Co. Valve operator. 3,182,524, 5-11-65, Cl. 74-625.
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- Knox, Lawrence H., to Syntex Corp. 5,10-methylene-19-nor-androstanes, -androstenes and -androstadienes. 3,184,485, 5-18-65, Cl. 260-397.4.
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- Knox, Lawrence H., to Syntex Corp. 13a-fluoro-17 β -methyl-18-nor steroids. 3,210,388, 10-5-65, Cl. 260-397.3.
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- Knox, Roy L.: See—
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- Kobryner, Herman H., to Murray Mfg. Corp. Meter mount. 3,221,216, 11-30-65, Cl. 317-104.
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- Kochner, William B., deceased (by R. L. Kochner, administrator), to Knapp-Monarch Co. Dispensing apparatus for effluent liquids. 3,197,144, 7-27-65, Cl. 239-303.
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- Kogelnik, Herwig W., and C. K. N. Patel, to Bell Telephone Laboratories, Inc. Optical maser mode selector. 3,187,270, 6-1-65, Cl. 331-94.5.

- Koger, Hershell W., to Thiokol Chemical Corp. Continuous sampling device for dry ground materials. 3,186,233, 6-1-65, Cl. 73-421.
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- Kohl, Theodor. Standing equipment uniting a number of work spaces for hairdressers. 3,164,429, 1-5-65, Cl. 312-227.
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- Kohler, Robert D., to Toledo Scale Corp. Auxiliary load circuitry for load responsive devices. 3,221,828, 12-7-65, Cl. 177-210.
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- Kohring, Erwin, and H. Drees. Automatically chucking multiple spindle machine tool. 3,200,472, 8-17-65, Cl. 29-38.
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- Kovalevski, Nicholas, and D. C. Wilton, to International Telephone & Telegraph Corp. Photo-electrical compander. 3,213,391, 10-19-65, Cl. 333-14.

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- Kozacka, Frederick J., to The Chase-Shawmut Co. High interrupting capacity fuse. 3,189,712, 6-15-65, Cl. 200-120.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Time lag fuses with fuse links having link-severing overlays. 3,197,592, 7-27-65, Cl. 200-123.
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- Kozlik, Robert F., and J. L. Swanson, to General Mills, Inc. Process for making a whippable composition. 3,199,988, 8-10-65, Cl. 99-139.
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- Kracht, Gerhard, to Swedish Crucible Steel Co. Expanded plastic molding machine. 3,224,039, 12-21-65, Cl. 18-5.
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- Krackhardt, Elliott M., to General Electric Co. Electron gun electrode assembly. 3,215,880, 11-2-65, Cl. 313-82.
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- Kradel, Fred L., and R. H. Albright, to I-T-E Circuit Breaker Co. Universal fuse adapter. 3,178,538, 4-13-65, Cl. 200-133.
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- Kraffe de Laubarede, Leonce M. H., to Societe Anonyme dite: Plastus-S.A. Homogenizing device for extruding or injecting machines in the treatment of thermoplastics. 3,169,752, 2-16-65, Cl. 259-7.
- Kraffe de Laubarede, Leonce M. H., to Plastus, S.A. Plastic coated fabric tubes and belts and method of making same. 3,194,273, 7-13-65, Cl. 138-125.
- Kraft, Joseph M., and J. C. Hahn, to United States of America, Navy. Tension-compression testing machine. 3,194,062, 7-13-65, Cl. 73-93.
- Kraft, Donald L., E. C. Beason, Jr., and R. O. Welty, to Phillips Petroleum Co. Thermoplastic bag sealer. 3,218,961, 11-23-65, Cl. 100-93.
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- Kraft, William M., and J. Weisfeld, to Tenneco Chemicals, Inc. Stable aqueous alkyl resin emulsions. 3,223,658, 12-14-65, Cl. 260-22.
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- Krahl, Enzo: See—
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- Krahne, Robert H.: See—
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- Krahnke, John W., and Krahne. 3,209,053.
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- Kraines, Maurice H. Tire trim member. 3,188,143, 6-8-65, Cl. 301-37.
- Krajc, Adolf, and A. Pritzkow, to Junkers & Co. G.m.b.H. Gas burner control system. 3,181,592, 5-4-65, Cl. 158-124.
- Krajewski, John J., to Swift & Co. Fatty amine derivatives of proteins. 3,168,510, 2-2-65, Cl. 260-117.
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- Krake, Leland W., to Scovill Mfg. Co. Radiator filler neck. 3,211,319, 10-12-65, Cl. 220-40.
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- Krall, William A., J. A. Mann, and L. A. Cott, to Martin-Marietta Corp. Heat dissipating and shielding structure for mounting electronic component upon a support. 3,211,522, 10-12-65, Cl. 174-35.
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- Kralowetz, Bruno. Swaging machine. 3,224,244, 12-21-65, Cl. 72-402.
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- Kramer, Bruce E., and E. J. Fields, to United States of America, Navy. Magnesium oxide coating method. 3,181,964, 5-4-65, Cl. 117-23.
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- Kramer, Hyman. Push-on retainers. 3,215,025, 11-2-65, Cl. 85-35.
- Kramer, Israel, to Kramer Trenton Co. Roof top refrigeration unit. 3,225,562, 12-28-65, Cl. 62-263.
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- Kramer, Leo, to Thor Power Tool Co. Impulse tool. 3,214,940, 11-2-65, Cl. 64-26.
- Kramer, Leo, A. L. Medesha, and J. M. Ladd, to Ingersoll-Rand Co. Wire stripper. 3,195,379, 7-20-65, Cl. 81-9.51.
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- Kramer, Nathan R., to Bulova Watch Co., Inc. Bistable solenoid. 3,202,886, 8-24-65, Cl. 317-171.
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- Krantz, John C., Jr., to Air Reduction Co., Inc. Injectable anesthetic. 3,216,897, 11-9-65, Cl. 167-52.
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- Kroll, Harry: See—
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- Kroll, Merville O.: See—
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- Kroll, Roland F. Support bracket for chain saw. 3,215,378, 11-24-65, Cl. 248-014.
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- Kronenberg, Samuel I. Pumps, blowers, compressors, and the like. 3,219,262, 11-23-65, Cl. 230-117.
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- Kronhaus, Semen M. Ship preserver means. 3,183,876, 5-18-65, Cl. 114-229.
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- Kurtz, Abraham N., to Union Carbide Corp. Method for the production of alkali metal acetylides. 3,225,110, 12-21-65, Cl. 260-665.
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- Langan, Jeremiah E., to Leesona Corp. Pilot seat ejection control system. 3,193,748, 7-6-65, Cl. 320-1.
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- Langan, John F., L. Clayton, Jr., and G. E. Allen, Jr., to Langan Aperture Cards, Inc. Aperture cards. 3,212,206, 10-19-65, Cl. 40-158.
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- Lange, Guenter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-soluble reactive azo dyes. 3,222,354, 12-7-65, Cl. 260-163.
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- Lange, Henry W. Power transmission mechanism. 3,166,953, 1-26-65, Cl. 74-785.
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- Lange, Maurice, to Societe anonyme dite: Ancienne Maisson Turquill. Engraving apparatus. 3,194,881, 7-13-65, Cl. 128-66.
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- John, Wilhelm, and Lange. 3,172,823.
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- La Rosa, Richard, to Hazeltine Research, Inc. Travelling-wave parametric amplifier with idler frequency much higher than signal frequency and propagating on same line therewith. 3,215,941, 11-2-65, Cl. 330-4.6.
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- Larson, George W., to Eastman Kodak Co. Method of inhibiting discoloration of color photographic layers containing dye images and resulting photographic products. 3,201,244, 8-17-65, Cl. 96-56.
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- Lawrence, Harold C., L. C. Hoch, and C. L. W. Balles, to Aeroflex Laboratories Inc. Vibration damping and load-supporting apparatus. 3,204,911, 9-7-65, Cl. 248-358.
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- Lawrence, Herbert J. Identification bank book. 3,172,687, 3-9-65, Cl. 281-31.
- Lawrence, Herbert R., to United Aircraft Corp. Laser ignition. 3,177,651, 4-13-65, Cl. 60-35.3.
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- Lawrence, John A., to The Bunker-Ramo Corp. Magnetic-recording head switch. 3,182,298, 5-4-65, Cl. 340-174.1.
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- Lawrence, Joseph W., to Atlas Chemical Industries, Inc. 1,2,3,5,6-pentanitromannite 4-acrylate polymer, method of making, and explosive compositions compounded therewith. 3,179,643, 4-20-65, Cl. 260-89.5.
- Lawrence, Joseph W., to Atlas Chemical Industries, Inc. Explosive compositions containing sorbitan tetranitrate sensitizer. 3,203,844, 8-31-65, Cl. 149-38.
- Lawrence, Joseph W., and H. F. Blum, to Atlas Chemical Industries, Inc. β -Nitratocetyl acrylate and explosive compositions made therewith. 3,179,644, 4-20-65, Cl. 260-89.5.

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- Lemarchand, Francis. Thread tension regulator for textile machines. 3,223,351, 12-14-65, Cl. 242-154.
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- Lemberger, Robert A. Vertical take-off and landing aircraft. 3,182,929, 5-11-65, Cl. 244-12.
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- Lemelson, Jerome H. Dispensing closure. 3,207,377, 9-21-65, Cl. 222-130.
- Lemelson, Jerome H. Apparatus and method for coating pipe. 3,218,184, 11-16-65, Cl. 117-18.
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- Lemeshnik, William, to Jo-Nan Enterprises Inc. Slipper. 3,221,422, 12-7-65, Cl. 36-9.
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- Lemette, Raymond J., to Compagnie de Pont-A-Mousson. Machine for the continuous production of sheets of thermoplastic material. 3,212,137, 10-19-65, Cl. 18-15.
- Lemin, Alan J., to The Upjohn Co. Method for controlling growth of undesired vegetation. 3,169,849, 2-16-65, Cl. 71-2.6.
- Lemin, Alan J., A. Steinhards, and G. A. Boyack, to The Upjohn Co. Composition and method for promoting growth and protecting plants from damage by parasitic pathogens. 3,184,300, 5-18-65, Cl. 71-2.6.
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- Lemke, Hans. Recovery of a carbonyl compound of cobalt. 3,188,351, 6-8-65, Cl. 260-804.
- Lemke, James U., to Bell & Howell Co. Magnetic tape transducer. 3,182,300, 5-4-65, Cl. 340-174.1.
- Lemke, Winfred R., to Square D Co. Articulated reciprocating contact structure. 3,200,225, 8-10-65, Cl. 200-166.
- Lemley, Kenneth F., to Barney Machinery Co. Fail-safe gate-operating apparatus. 3,225,544, 12-28-65, Cl. 60-57.
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- Lemmerman, Carl W. Jet engine noise attenuator. 3,185,252, 5-25-65, Cl. 181-51.
- Lemmerman, Harold H. P., to General Electric Co. Viscous damped sensing device. 3,203,259, 8-31-65, Cl. 74-5.5.
- Lemmond, Bruce. Readily mountable soap dish. 3,194,526, 7-13-65, Cl. 248-226.
- Lemmond, Charles Q., to General Electric Co. Information storage system. 3,171,306, 2-23-65, Cl. 340-174.1.
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- Lemmond, Everett C. Package agitator for increasing ice capacity. 3,167,304, 1-26-65, Cl. 259-1.
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- Lemoine, Jean H., to Societe d'Electronique et d'Automatisme. Binary coded information store. 3,226,695, 12-28-65, Cl. 340-173.
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- Lemp, Jurgen: See—
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- Lempa, Roman F., to Selas Corp. of America. Industrial burner. 3,219,094, 11-23-65, Cl. 158-7.
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- Lempert, Joseph, to Westinghouse Electric Corp. Image tube utilizing transmissive dynode-type target. 3,159,781, 6-15-65, Cl. 315-11.
- Lempert, Joseph, to Westinghouse Electric Corp. High gain storage tube with BIC target. 3,213,315, 10-19-65, Cl. 315-10.
- Lempert, Joseph, to Westinghouse Electric Corp. Storage device utilizing E.B.I.C. 3,218,504, 11-16-65, Cl. 315-11.
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- Lenaers, Rene, to Union Carbide Corp. Process for preparing oxadiazoles. 3,211,742, 10-12-65, Cl. 260-307.
- Lenahan, Thomas P., B. J. Bradley, and A. H. Limbaugh, to Halliburton Co. Grouting tool. 3,166,132, 1-19-65, Cl. 175-235.
- Lenart, Tibor, to Electrolux, Aktiebolaget. Dielectric cooking apparatus. 3,210,513, 10-5-65, Cl. 219-10.55.
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- Leners, Wilhelmus L. L., to North American Phillips Co., Inc. Component inserting machine. 3,200,481, 8-17-65, Cl. 29-203.
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- Heller, Milton D., Lenhard, and Bernstein. 3,182,075.
- Lenhart, Albert F., to The Oil Shale Corp. Production of oil from solid carbonaceous materials. 3,211,643, 10-12-65, Cl. 208-187.
- Lenhart, Herbert S., to Fuller Co. Pneumatic conveying apparatus. 3,179,472, 4-20-65, Cl. 302-58.

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- Lenk, Frederick R., Jr., to Johnson & Johnson. Method of and apparatus for feeding fibrous material to a textile processing machine. 3,218,076, 11-23-65, Cl. 19-105.
- Lenk, James: See—
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- Lenk, James W., to Berkley Machine Co. Mechanism for removing blanks or sheets from a stack. 3,172,655, 3-9-65, Cl. 271-2.
- Lenk, James W., to Berkley Machine Co. Scoring and folding mechanisms of an envelope making machine and drive therefor. 3,186,316, 6-1-65, Cl. 93-62.
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- Lenkey, Andrew, and R. J. Ehret, to Beckman Instrument, Inc. Dispensing head for a fluid fraction collector. 3,181,574, 5-4-65, Cl. 141-130.
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- Lentz, Norman E., to Bell Telephone Laboratories, Inc. Unipolar to bipolar pulse converter. 3,172,952, 3-9-65, Cl. 178-70.
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- Lenz, Olaf G., to Texas Instruments Inc. Multi-lead header handling device. 3,171,548, 3-2-65, Cl. 214-1.
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- Levinson, Benjamin L., and E. E. Brush; said Levinson assor. to Evelyn S. Levinson. Dispenser for liquid in upright container with controlled atmosphere. 3,186,593, 6-1-65, Cl. 222-82.
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- Levin, Francis, to Real Patentauswertungs Anstalt. Control device with two push buttons for two colours ball point pens. 3,170,440, 2-23-65, Cl. 120-42.13.
- Levin, Francis, to Real Patentauswertungs Anstalt. Control device with two push buttons for two colours ball point pens. 3,170,441, 2-23-65, Cl. 120-42.13.
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- Levy, Elie. Elastic band stitching apparatus. 3,219,002, 11-23-65, Cl. 112-2.
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- Levy, Joseph, to Universal Oil Products Co. N-alkoxy- β -phenylethylamines and β -hydroxy- β -phenylethylamines. 3,184,510, 5-18-65, Cl. 260-570.6.
- Levy, Joseph, to Universal Oil Products Co. N-alkoxy- α -substituted cycloalkylpropylamines. 3,207,787, 9-21-65, Cl. 260-563.
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- Levy, Marilyn, to United States of America, Army. Monobaths containing sodium polyacrylate and polyvinylpyrrolidone. 3,167,429, 1-26-65, Cl. 96-61.
- Levy, Marilyn, to United States of America, Army. Heat erasable photo sensitive coating and process of using same. 3,169,064, 2-9-65, Cl. 96-27.
- Levy, Marilyn, to United States of America, Army. Photographic fixing bath. 3,170,793, 2-23-65, Cl. 96-61.
- Levy, Marvin E.: See—
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- Levy, Maurice M.: See—
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- Levy, Maurice M. Apparatus and method for sorting flat articles. 3,184,061, 5-18-65, Cl. 209-72.
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- Levy, Robert A. Four spin-flip six-level doped silicon maser amplifier. 3,223,932, 12-14-65, Cl. 330-4.
- Levy, Robert M., and L. E. Wegeng. Safety hat for water skiers. 3,213,823, 10-26-65, Cl. 116-114.
- Levy, Seymour: See—
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- Levy, William. Frame structure. 3,184,802, 5-25-65, Cl. 20-15.
- Levy, William G. Gun rack. 3,180,494, 4-27-65, Cl. 211-64.
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- Lewakowski, John J., to Chrysler Corp. Control mechanism for adjustable gas turbine nozzle. 3,211,424, 10-12-65, Cl. 253-52.
- Le Wan, Chester R., to International Telephone and Telegraph Corp. Reset mechanism for power operated reversible loads. 3,218,403, 11-16-65, Cl. 200-47.
- Lewandowski, Anton N. Apparatus for impressing type face. 3,166,008, 1-19-65, Cl. 101-6.
- Lewandowski, Raymond F., to Oak Mfg. Co. Plunger switch having contacts readily convertible between normally open and normally closed positions. 3,223,813, 12-14-65, Cl. 200-159.
- Lewandowski, Thaddeus, to Bonewitz Chemicals, Inc. Cleaner. 3,218,260, 11-16-65, Cl. 252-142.
- Lew, Baak W.: See—
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- Lew, Baak W., to Atlas Chemical Industries, Inc. Process of producing esters of hydroxymethyltetrahydrofuroic acid. 3,225,069, 12-21-65, Cl. 260-347.5.
- Lew Mfg. Co.: See—
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- Lewellen, Wendell G., Jr., to Imperial Industries, Inc. Rotating mechanism for plating barrel or the like. 3,202,006, 8-24-65, Cl. 74-406.
- Lewenstein, Moses J. Analgesic compositions. 3,218,233, 11-16-65, Cl. 167-65.
- Lewi, William. Dual seal package. 3,202,277, 8-24-65, Cl. 206-78.
- Lewin, Gunnar E. W. Locking device for doors, shutters and the like. 3,201,160, 8-17-65, Cl. 292-71.
- Lewin, Gunnar E. W., to Atvidabergs Inredningar AB. Pivot-bearing assemblies for windows and similar structures. 3,208,097, 9-28-65, Cl. 16-164.
- Lewin, Henry: See—
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- Lewin, Irving I. Fishing lure. 3,218,750, 11-23-65, Cl. 43-42.28.
- Lewin, Leonard, and C. C. Eaglesfield, to International Standard Electric Corp. Waveguide corner junction with improved operation by use of diaphragms reflective at glancing angle. 3,181,088, 4-27-65, Cl. 333-11.
- Lewin, Menachem, O. Elsmar, M. Mielcharek, and T. Bernstein, to the State of Israel. Purification of hecogenin. 3,172,884, 3-9-65, Cl. 260-239.55.
- Lewin, Morton H., to Radio Corp. of America. Logic circuits employing transistors and negative resistance diodes. 3,175,097, 3-23-65, Cl. 307-88.5.
- Lewin, Seymour Z.: See—
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- Lewin, Seymour Z., and R. H. Koslow, to United States of America, Atomic Energy Commission. Electrochemical dosimeter. 3,179,581, 4-20-65, Cl. 204-195.
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- Lewis, Bernard L., to Radiation, Inc. Satellite sensor and control system. 3,185,852, 5-25-65, Cl. 250-227.
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- Lewis, Dallas B. Conveyor loading and unloading system. 3,191,750, 6-29-65, Cl. 198-31.
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- Lewis, George E., to Hydriol Co. Electrical remote control and indicating system. 3,202,978, 8-24-65, Cl. 340-286.
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- Lewis, Harold V., and C. C. Stanton, to Corning Glass Works. Pipe cutter. 3,196,722, 7-27-65, Cl. 83-12.
- Lewis, Harold V., and L. C. Liptak, to Corning Glass Works. Flexible pipe coupling. 3,212,798, 10-19-65, Cl. 285-230.
- Lewis, Harry S., B. L. Capper, and B. H. Harris, to Chamberlain & Hookham Ltd. Electrical apparatus having a housing and a withdrawable frame or like support. 3,194,906, 7-13-65, Cl. 200-50.
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Lin, Hung C., to Westinghouse Electric Corp. Semiconductor device providing diode functions. 3,210,620, 10-5-65, Cl. 317-234.

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Lindberg, John E. Hermetically sealed pressure actuated spot point temperature detection device. 3,221,128, 11-30-65, Cl. 200-140.

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- Lindblom, Gordon P., G. D. Orloff, and J. T. Patton, to Esso Production Research Co. Method of reducing fluid loss in well treatment. 3,198,268, 8-3-65, Cl. 175-12.
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- Lindsay, William R. Pipe splitter and spreader. 3,181,302, 5-4-65, Cl. 61-72.7.
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- Henderson, Richard W., and Seltzer. 3,222,182.
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- Wilson, Robert O. 3,226,378.
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- Liquefreeze Co., Inc.: *See*—
- Morrison, Willard L. 3,166,425.
- Liquid Controls Corp.: *See*—
- Kushmuk, Walter P. 3,213,985.
- Richards, George B., and Contoyania. 3,204,659.
- Richards, George B., and Rystrom. 3,216,619.
- Liquid Package Equipment Corp.: *See*—
- Williams, Earl J. 3,201,002.
- Liquidometer Corp.: *See*—
- Di Giacomo, Sebastian F. 3,214,655.
- Lis, Jan: *See*—
- Bretznajder, Stanislaw, Porowski, and Lis. 3,226,186.
- Lisbin, Arthur, to New Jersey Bank and Trust Co. Method for forming sink partitions. 3,199,333, 8-10-65, Cl. 72-373.
- Lischer, Georg, to Maschinenfabrik Moenus A.G. Hydraulic die cutting press with means for simultaneous adjustment of cutting height and stroke. 3,174,377, 3-23-65, Cl. 83-525.
- Liscio, Maurice F., to S-F-D Laboratories, Inc. Cathode heater assembly for use in strong D.C. magnetic fields. 3,223,876, 12-14-65, Cl. 313-276.
- Lisicky, Anton J.: *See*—
- Mintzer, Alfred I., and Lisicky. 3,197,771.
- Lislaque, Jean M. P., and R. Dellesmillieres, to International Standard Electric Corp. Positioning mechanism control and switching. 3,208,018, 9-21-65, Cl. 334-7.
- Liska, Erich, to Payer-Lux. Inner cutter for a dry shaver fixed to blade carrier by collars and an undetachable coating. 3,178,818, 4-20-65, Cl. 80-354.
- Liskey Aluminum, Inc.: *See*—
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- Liskey, Ernest C., Jr. 3,180,460.
- Liskey, Ernest C., Jr., to Liskey Aluminum, Inc. Demountable sectional partition. 3,180,459, 4-27-65, Cl. 189-34.
- Liskey, Ernest C., Jr., to Liskey Aluminum, Inc. Floor panel for elevated flooring. 3,180,460, 4-27-65, Cl. 189-34.
- Lisle Corp.: *See*—
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- Lisowski, John R., to Sperry Rand Corp. Error detection apparatus. 3,183,483, 5-11-65, Cl. 340-146.1.
- Lisovsky, Semen N.: *See*—
- Gitlin, Neukh N., and Lisovsky. 3,218,839.
- Liss, Jules and M. Magnetic guard rail. 3,212,755, 10-19-65, Cl. 256-65.
- Liss, Martin: *See*—
- Liss, Jules and M. 3,212,755.
- Liss, Saul: *See*—
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- Lissac, Georges H. E. Apparatus for the assembly of ophthalmic lenses in spectacle frames. 3,184,359, 5-18-65, Cl. 156-349.
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- Lissau, Frederic. Hydraulic positioning servo system. 3,215,044, 11-2-65, Cl. 91-388.
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- Lissner, Hans. Container of flexible material and in the shape of a sack, pouch, bladder or bag, particularly valved sack, and method of closing the same. 3,193,180, 7-6-65, Cl. 229-62.5.
- List, Hans: *See*—
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- Büsch, Siegfried, Hatschek, and Fischinger. 3,220,720.
- Hatschek, Rudolf. 3,171,989.
- Sklar, Leo P. 3,169,346.
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- List, William F., to Westinghouse Electric Corp. High reliability sampling apparatus. 3,210,740, 10-5-65, Cl. 340-174.
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- Lister, Fred, and C. G. Cullen, to FMC Corp. Modified epoxidized polybutadiene resin composition. 3,215,586, 11-2-65, Cl. 161-203.
- Lister, Glenn F., to Lister Concrete Products and Ornamental Iron. Leveling device. 3,183,581, 5-18-65, Cl. 29-200.
- Lister, Neville A., to United Shoe Machinery Corp. Machines for molding toe caps onto lasted shoes. 3,173,173, 3-16-65, Cl. 18-17.
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- Liston, Joseph. Combined internal combustion and hot-air engine. 3,180,078, 4-27-65, Cl. 60-14.
- Liston, Marcia B.: See—
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- Litke, Alvin C., to Allied Chemical Corp. Triazine containing azo dyestuffs. 3,186,980, 6-1-65, Cl. 260-157.
- Litke, Bernhard J. Bedside reading stand. 3,215,482, 11-2-65, Cl. 312-233.
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- Litman, Roger A., to General Instrument Corp. Support for lapping transistor wafers or the like. 3,168,875, 1-26-65, Cl. 51-216.
- Litosch, Eugen, to F. L. Smith & Co. Supporting structure including an adjustable support. 3,197,163, 7-27-65, Cl. 248-23.
- Litsios, John, to General Precision Inc. Multi-tube sonic defoamer. 3,220,166, 11-30-65, Cl. 55-178.
- Litsios, John, S. L. Spira, and T. G. Watkins, to General Precision, Inc. Sonic defoaming system. 3,218,782, 11-23-65, Cl. 55-164.
- Litsky, Leonard A., and J. D. Skelly, to The Fafnir Bearing Co. Apparatus for bonding an annular liner to a bearing ring. 3,184,362, 5-18-65, Cl. 156-423.
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- Little, Jess C., to The Fanner Mfg. Co., a Division of Textron, Inc. Dead ends for cables. 3,190,065, 6-22-65, Cl. 57-145.
- Little, John C., to The Dow Chemical Co. Purification of cyanolipidic acids. 3,217,027, 11-9-65, Cl. 260-465.4.
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- Little, Robert K., to RKL Controls, Inc. Fluid motor. 3,175,472, 3-30-65, Cl. 92-94.
- Little, Robert K., to H. Kohn. Positive drive mechanism. 3,225,615, 12-28-65, Cl. 74-416.
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- Littlenfeld, Herrick B., to R. W. Shore, Mfg. Co., Inc. Closure for containers. 3,179,280, 4-20-65, Cl. 220-27.
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- Littman, Alan L., to The Wolf Envelope Co. Envelope and card unit. 3,181,774, 5-4-65, Cl. 229-70.
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- Littmann, Hans, to Carl Zeiss. Double stereo-microscope and illuminator for surgical operations. 3,186,300, 6-1-65, Cl. 88-39.
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- Littwin, Arthur K., to R. L. Littwin, A. K. Littwin, H. A. Young, and Donald F. Littwin, trustees. Automatic motor reversal controlled by variable transformer means. 3,213,342, 10-19-65, Cl. 318-286.
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- Litwiler, Danny, and M. G. Grabowsky. Baseball batting cage. 3,222,067, 12-7-65, Cl. 273-26.
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- Liu, Chi-Sheng, to Radio Corp. of America. Deflection circuit with Barkhausen oscillation preventive means. 3,196,809, 7-20-65, Cl. 315-27.
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- Liu, Frederick F., to Quantum Dynamics, Inc. Perforated disc type turbine flowmeter. 3,201,988, 8-24-65, Cl. 73-231.
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- Lively, Lawrence D., C. E. Jaynes, and J. B. Smith, to Continental Oil Co. Apparatus for recovering minute quantities of volatile compounds from inert solids. 3,205,700, 9-14-65, Cl. 73-19.
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- Livera, Phillip A., to Westinghouse Electric Corp. Inserting conveyor. 3,208,601, 9-28-65, Cl. 214-1.
- Livermont, Frank W., deceased, by M. S. Zimmermann, executor, to Reed Roller Bit Co. Torque limiter having overload release clutch for power-operated screw driver or the like. 3,168,944, 2-9-65, Cl. 192-56.
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- Loef, Jakob, to Steinbock G.m.b.H. Mast assembly for a side loading truck. 3,219,210, 11-23-65, Cl. 214-75.
- Loef, Jakob M. J., to Steinbock G.m.b.H. Side-loading truck with an eccentrically mounted load handling mechanism. 3,190,473, 6-22-65, Cl. 214-75.
- Loeffler, Donald E., to Shell Oil Co. Lubricant compositions. 3,222,279, 12-7-65, Cl. 252-28.
- Loeffler, Donald E., to Shell Oil Co. Lubricant compositions. 3,223,628, 12-14-65, Cl. 252-28.
- Loeffler, Donald E., to Shell Oil Co. Lubricant compositions. 3,223,629, 12-14-65, Cl. 252-28.
- Loeffler, Donald E., and H. E. Hook, to Shell Oil Co. Process for preparation of water-resistant clay thickening agents. 3,179,590, 4-20-65, Cl. 252-28.
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- Loehlein, Harold J., to Reynolds Metals Co. Method of making a pressure welded finned panel. 3,205,560, 9-14-65, Cl. 29-157.3.
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- Loev, Bernard, to Smith Kline & French Laboratories. New sulfonurea hypoglycemic agents. 3,183,260, 5-11-65, Cl. 260-465.
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- Loewen, Bruno F., to Phillips Petroleum Co. Treatment of carbon black. 3,182,406, 5-11-65, Cl. 34-39.
- Loewen, Bruno F., to Phillips Petroleum Co. Carbon black filter. 3,187,487, 6-8-65, Cl. 55-341.
- Loewenfeld, Kurt, to G. Siempelkamp Maschinenfabrik. Multi-platen press with simultaneous platen closure. 3,209,405, 10-5-65, Cl. 18-16.
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- Loewenstern, Walter, Jr. Solid state multiple stream traveling wave amplifier. 3,173,102, 3-9-65, Cl. 330-39.
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- Löffler, Tilo, and H. Schindler. Shoe-lasting machine having adhesive applying means. 3,220,034, 11-30-65, Cl. 12-7.
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- Lofien, Howard L., to Pine State Knitwear Co., Inc. Apparatus for separating textile articles. 3,166,261, 1-19-65, Cl. 242-18.
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- Logan, Burl L., to Walking Stick Radiators Inc. Insertable slag trap adapter for automobile radiator. 3,191,672, 6-29-65, Cl. 165-119.
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- Logan, James S., and J. A. Zalowsky, to Commercial Solvents Corp. Ammonium nitrate explosive gel composition and its preparation. 3,214,807, 10-26-65, Cl. 149-41.
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- Logan, Kenneth C., and T. B. Little, to Anglo Paper Products, Ltd. Wood chip producing device. 3,219,076, 11-23-65, Cl. 144-42.
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- Lohr, Riley, to John H. Hartman, Jr. Spring motor drive. 3,216,529, 11-9-65, Cl. 185-39.
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- Lombard, Daniel L. Recording apparatus. 3,185,770, 5-25-65, Cl. 179-7.1.
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- Loncrini, Donald F., to General Electric Co. Cupric and zinc-bis (trimellitate) dianhydrides. 3,182,074, 5-4-65, Cl. 260-346.3.
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- Long, Arch O., Sr. Method and apparatus for feeding flat-work ironers. 3,198,315, 8-3-65, Cl. 198-102.
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- Long, Bernard, to Glaces de Boussols, S. A. Apparatus and process for differential tempering of glass. 3,174,840, 3-23-65, Cl. 65-115.
- Long, Bernard, to G.B.D. Societe Anonyme Holding. Process and apparatus for making sheet glass. 3,183,072, 5-11-65, Cl. 65-333.
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- Long, Kenneth A., and S. Wilder, Jr., to Aluma Corp. Poultry crate. 3,217,919, 11-16-65, Cl. 220-6.
- Long, Laurence D.: See—
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- Long, Leonard D. Expandable core-former. 3,210,039, 10-5-65, Cl. 249-181.
- Long Mfg. Co. Inc.: See—
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- Long, Marshall. Anchoring structure for building slabs. 3,199,259, 8-10-65, Cl. 52-283.
- Long, Marshall, to International Lift Slab Corp. System for elevating building components. 3,201,088, 8-17-65, Cl. 254-89.
- Long, Olan L., and G. P. Rogers, to Westinghouse Electric Corp. Dishwasher pump and filter. 3,210,009, 10-5-65, Cl. 239-124.
- Long, Paul J., Jr., to General Motors Corp. Rod seal for shock absorber. 3,203,511, 8-31-65, Cl. 188-100.
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- Long, Peter W., to Welded & Allied Products Ltd. Roller conveyors. 3,213,993, 10-26-65, Cl. 193-35.
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- Long, Robert A., to AMP Inc. Apparatus for making electrical connections. 3,220,099, 11-30-65, Cl. 29-203.
- Long, Robert A., C. M. Lovendusky, and J. R. Vickery, to AMP Inc. Lead-making method and apparatus. 3,204,334, 9-7-65, Cl. 29-509.
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- Long, Robert B., to Esso Research and Engineering Co. Reactor coolant system. 3,198,710, 8-3-65, Cl. 176-39.
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- Long, Robert J., to Crestmont Consolidated Corp. Tape controlled programmer. 3,164,731, 1-5-65, Cl. 307-115.
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- Long, Roger A., to Whittaker Corp. Ceramic micaceous material. 3,189,470, 6-15-65, Cl. 106-39.
- Long, Roger A., to Whittaker Corp. Composite ceramic body and method of forming the same. 3,213,337, 10-19-65, Cl. 317-234.
- Long, Russell F. Concrete batch plant. 3,207,327, 9-21-65, Cl. 214-2.
- Long, Spencer W., to Armco Steel Corp. Hook positioner. 3,202,446, 8-24-65, Cl. 294-82.
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- Long, Wayne J., to Borg-Warner Corp. Pilot operated relief valve with auxiliary pilot control. 3,180,353, 4-27-65, Cl. 137-491.
- Long, Wendell P., to Hercules Powder Co. Olefin copolymerization process. 3,203,940, 8-31-65, Cl. 260-88.2.
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- Long, William R., to Long Mfg. Co. Bulk rack tobacco harvester. 3,203,562, 8-31-65, Cl. 214-5.5.
- Long, William R., and P. J. T. Rawlins, to Long Mfg. Co. Tobacco harvester with coating conveyors and tobacco receiving means having an open side. 3,215,288, 11-2-65, Cl. 214-5.5.
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- Loomis, Glenn L. Tool for testing pipe with water and gas simultaneously. 3,165,920, 1-19-65, Cl. 73-40.5.
- Loomis, Glenn L., deceased; J. D. Loomis, independent executor, to J. D. Loomis. Automatic connect and disconnect apparatus for hydraulic testing tools. 3,193,015, 7-8-65, Cl. 166-67.
- Loomis, Glenn L., deceased; J. D. Loomis, executor, to J. D. Loomis. Method for making and testing a pipeline. 3,193,917, 7-13-65, Cl. 29-407.
- Loomis, Glenn L., deceased; J. D. Loomis, executor, to J. D. Loomis. Method of locating leaks and repairing well tubing in situ. 3,194,310, 7-13-65, Cl. 166-4.
- Loomis, Glenn L., deceased, by J. D. Loomis, executor, to J. D. Loomis. Packer back-up ring structure. 3,195,645, 7-20-65, Cl. 166-201.
- Loomis, Glenn L., deceased; J. D. Loomis, executor, to J. D. Loomis. Apparatus for testing and repairing well pipes. 3,199,598, 8-10-65, Cl. 166-147.
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- Lorenz, Wilhelm T., to R.I.V. Anstalt zur Verwaltung von Real- und Immaterialvermögen. Fluid regulator. 3,198,214, 8-3-65, Cl. 138-37.
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- Lorenzen, Edwin N.: See—
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- Lucien, Rene, and J. Masclet. Disc brake for vehicle wheel. 3,179,209, 4-20-65, Cl. 188-72.
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- Lundell, Oral K., to Friden, Inc. Stepping switch. 3,213,238, 10-19-65, Cl. 200-105.
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- Lundell, Vernon J., to Massey-Ferguson Services N.V. Wafering machine. 3,174,441, 3-23-65, Cl. 107-14.
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- Lundell, Vernon J. Process and apparatus for homogenizing hay and selectively windrowing the same. 3,208,206, 9-28-65, Cl. 56-23.
- Lundell, Walter T.: See—
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- Lunden, Clarence D., and L. L. Oh, to Boeing Airplane Co. Microwave zig-zag line couplers. 3,167,727, 1-26-65, Cl. 333-7.
- Lundevall, Gustav B., and M. O. Sem. Method of extraction of Zn, Cd and similar easily volatilized metals from waste metal which contains heavy metals. 3,214,268, 10-26-65, Cl. 75-63.
- Lundgren, Eric H., and W. A. Wayne. Magnetic tape pressure roller assembly. 3,217,997, 11-16-65, Cl. 242-55.19.
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- Lundin, Robert S., to General Time Corp. Combined motor and relay timing device. 3,205,379, 9-7-65, Cl. 307-141.
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- Lundquist, Burton R., and C. J. Wattenbarger, to Swift & Co. Packaging frozen meat. 3,193,392, 7-6-65, Cl. 99-174.
- Lundquist, Ingemar H.: See—
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- Lundström, Stig T., to Stal-Laval Turbin Aktiebolaget. Reduction transmission for marine machinery. 3,196,714, 7-27-65, Cl. 74-665.
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- Lundvik, Karl W. B., to Stal Refrigeration Aktiebolag. Means for starting compressors in unloaded state. 3,224,663, 12-21-65, Cl. 230-29.
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- Lungo, Antonio, to Clevite Corp. Electric wave filters utilizing piezoelectric resonators. 3,217,265, 11-9-65, Cl. 330-21.
- Lunk, Hans E., to Shell Oil Co. High impact polystyrene. 3,193,518, 7-6-65, Cl. 260-31.2.
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- Lunk, Hans E., and C. W. Schroeder, to Shell Oil Co. Multistage polymerization process for preparing transparent compositions. 3,178,489, 4-13-65, Cl. 260-880.
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- Lunn, Forrest J.: See—
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- Lunney, Raymond E., to Bell Telephone Laboratories, Inc. Voltage control apparatus. 3,217,239, 11-9-65, Cl. 323-43.5.
- Lunnsford, Abner L., to Anaconda Aluminum Co. Lock. 3,222,898, 12-14-65, Cl. 70-134.
- Lunnsford, Carl D. Basic esters of 3-aryl-3-pyrrolidinols. 3,155,702, 5-25-65, Cl. 260-326.3.
- Lunnsford, Carl D., and A. D. Cale, Jr., to A. H. Robins Co., Inc. 4-(omega-aminoalkyl)-3,3-disubstituted-2-thionpyrrolidinones and 4-carboxyalkyl-2-thionpyrrolidinones. 3,192,206, 6-29-65, Cl. 260-243.
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- Luper, Dale E., to Phillips Petroleum Co. Method of and apparatus for improved process control. 3,197,138, 7-27-65, Cl. 235-200.
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- Lyles, Cecil R. Jarring devices. 3,203,482, 8-31-65, Cl. 166-178.
- Lyles, Douglas K. Automobile rear tire attachment. 3,186,612, 6-1-65, Cl. 224-42.01.
- Lyles, Terry J. Folding cardboard chair. 3,168,347, 2-2-65, Cl. 297-442.
- Lyman, Frank, Jr., to Cambridge Thermionic Corp. Method of making an insulating mount with a terminal. 3,189,672, 6-15-65, Cl. 264-249.
- Lyman Gun Sight Corp.: See—Hageman, Chester W. 3,184,852.
- Lyman, Harold T., to Interstate Mfg. Corp. Cam mechanism. 3,170,331, 2-23-65, Cl. 74-10.6.
- Lyman, Harold T., F. G. Mason, and F. D. Bogardus, to Aladdin Industries, Inc. Tuner driving mechanism. 3,204,208, 8-31-65, Cl. 334-73.
- Lyman, Homer F., to Universal Dishwashing Machinery Co. Conveyor with snap-on links for dishwashing machines. 3,206,004, 9-14-65, Cl. 198-131.
- Lyman, Homer F., to Universal Dishwashing Machinery Co. Endless belt for dishwashing machines and having snap-on links. 3,206,005, 9-14-65, Cl. 198-131.
- Lyman, Joseph H. Simulated engine for bicycles. 3,210,889, 10-12-65, Cl. 46-175.
- Lyman, Paul F.: See—Staiger, Eugene L., and Lyman. 3,174,363.
- Lyman, Raphael: See—Thew, John G. 3,191,588.
- Lyman, Raphael. Pneumatic bottle cap removing device. 3,216,289, 11-9-65, Cl. 81-32.
- Lyman, Richard W., to United States Steel Corp. Electrode position control in vacuum arc furnace. 3,188,376, 6-8-65, Cl. 13-31.
- Lyman, Roger T., and W. G. Stewart, to Kooltronic Fan Co. Dual cutoff blower. 3,211,360, 10-12-65, Cl. 230-47.
- Lymburner, Douglas H., and H. Isachsen, to Deere & Co. Buffer spring for disk tiller. 3,204,705, 9-7-65, Cl. 172-286.
- Lymburner, Douglas H., and H. Isachsen, to Deere & Co. Land wheel steering means. 3,219,126, 11-23-65, Cl. 172-286.
- Lynam, Thomas R., deceased (by S. C. Walker and E. Jones, executors); C. Booth, C. S. Hedley, E. Singleton, and W. C. Gilpin, to The Steelley Refractory Brick Co. Ltd. Method of making metal covered refractory bricks. 3,213,533, 10-26-65, Cl. 29-528.
- Lynch, Arnold C., and K. R. Wilderspin. Method of making a magnetic core for a magnetic switch. 3,225,421, 12-28-65, Cl. 29-155.5.
- Lynch, Charles S.: See—Cyphers, Elmer B., Neblett, and Lynch. 3,223,625.
- Lynch, Charles T.: See—Robinson, Lawrence B., Vahldiek, and Lynch. 3,218,673.
- Lynch, Conrad L., to Pittsburgh Plate Glass Co. Blends of shellac with interpolymers of unsaturated carboxylic amides and ethylenically unsaturated compounds. 3,219,606, 11-23-65, Cl. 260-27.
- Lynch Corp.: See—Scourtes, George. 3,225,596.
- Lynch, Donald W.: See—Kaufman, Maxine G., and Lynch. 3,217,326.
- Lynch, Donald W., to General Electric Co. Control system for clothes dryers. 3,217,423, 11-16-65, Cl. 34-45.
- Lynch, Edward I., to General Electric Co. Quadrature phase splitting circuit. 3,215,770, 11-2-65, Cl. 178-5.4.
- Lynch, Eric R., and E. B. McCall, to Monsanto Chemicals Ltd. Preparation of N-aryl imides and amides. 3,194,779, 7-13-65, Cl. 260-326.
- Lynch, Francis R.: See—Stone, James R., and Lynch. 3,173,745.
- Lynch, Henry E., to General Electric Co. Gas turbine blade. 3,164,367, 1-8-65, Cl. 253-39.15.
- Lynch, James. Fishing rod carrier for a bicycle. 3,167,284, 1-26-65, Cl. 248-40.
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- Lynch, John R., to The Dow Chemical Co. Dispensing container. 3,215,300, 11-2-65, Cl. 220-4.
- Lynch, John W., to Randolph Mfg. Co. Sled attachment for supporting multiple purpose plows. Re. 25,803, 6-22-65, Cl. 172-393.
- Lynch, Leslie S., Jr., and E. L. Eldridge, to The Thomas & Betts Co. Insulated splicer with end seals. 3,165,575, 1-12-65, Cl. 174-84.
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- Lynch, Michael J., to United States of America, Army. Snap-hooks. 3,212,153, 10-19-65, Cl. 24-238.
- Lynch, Paul J., and P. L. Taylor, to Carrier Corp. Promotion of dropwise condensation. 3,167,927, 2-2-65, Cl. 62-56.
- Lynch, Raymond A., to The Dow Chemical Co. Method of production of alkynols. 3,190,929, 6-22-65, Cl. 260-632.
- Lynch, William E.: See—Millhouse, Murray S., and Lynch. 3,177,534.
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- Lynd, Samuel V., Jr., to The Tool Steel Gear and Pinion Co. Crane anti-skew device. 3,166,023, 1-19-65, Cl. 105-163.
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- Lyons, Warren I., to The Buckeye Cellulose Corp. Process for improving the low molecular weight yield in bark pyrolysis. 3,186,923, 6-1-65, Cl. 202-10.
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- Lynn, Bernard S. Jet aircraft runway having anti-skid properties when wet. 3,168,019, 2-2-65, Cl. 94-5.
- Lynn, John, & Co. Ltd.: See—Elliott, Kenneth M., and Bell. 3,191,694.
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- Lynn, John W., to Union Carbide Corp. 2-vinyl-oxyethyl thioacetate and polymerization products thereof. 3,223,685, 12-14-65, Cl. 260-79.7.
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- Lynn, Lawrence B., to Westinghouse Electric Corp. Induction motor rotor. 3,194,996, 7-13-65, Cl. 310-211.
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- Lynn, Ralph D., to Jersey Production Research Co. Mechanical spread corrector with variable velocity function. 3,209,319, 9-28-65, Cl. 340-15.5.
- Lynn, Robert J., C. L. Wanlund, and G. H. Treslo, to Vapor Corp. Door control linkage. 3,219,334, 11-23-65, Cl. 268-49.
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- Lyon, Charles E., Jr., to Motorola, Inc. Tuner mechanism. 3,190,132, 6-22-65, Cl. 74-10.85.
- Lyon, Charles E., Jr., to Motorola, Inc. Tuning apparatus. 3,192,781, 7-6-65, Cl. 74-10.31.
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- Lyon, Edward S., to Micro-Mist Systems, Inc. Tank cleaning method and apparatus. 3,188,238, 6-8-65, Cl. 134-24.
- Lyon, Floyd A., to Halm Instrument Co., Inc. Web cutting and stacking means. 3,191,472, 6-29-65, Cl. 83-61.
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- Lyon, George A., Jr., to Lyon Inc. Wheel cover. 3,214,219, 10-26-65, Cl. 301-37.
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- Lyon, Joe M., Jr. Snap release container. 3,170,588, 2-23-65, Cl. 220-60.
- Lyon, John E., J. R. Parks, and J. G. Stiles, Jr., to Monsanto Co. Ammonium nitrate compositions containing hydratable metal salts and methods for producing the same. 3,212,944, 10-19-65, Cl. 149-21.
- Lyon, John K.: See—Potapenko, Gennady, and Lyon. 3,176,887.
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- Lyons, James D., to Dow Corning Corp. Method of making finely divided monomethylsiloxane. 3,208,972, 9-28-65, Cl. 260-46.5.
- Lyons, James M., to Dana Corp. Universal joint. 3,178,907, 4-20-65, Cl. 64-17.
- Lyons, John M.: See—Baugh, Elbert R., and Lyons. 3,222,227.
- Lyons, Richard J., to United Merchants and Manufacturers, Inc. Apparatus for tip printing pleats. 3,205,854, 9-14-65, Cl. 118-32.
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- Lytle, Joseph L. Three-piece puzzle. 3,168,316, 2-2-65, Cl. 273-156.
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- Lytle, Noel, and F. F. Hawkins. Device for use in washing the udders of cows. 3,174,457, 3-23-65, Cl. 119-1.
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- Ford, Franklin C., and Biehl. 3,224,337.
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- MMM, Inc.: See—Emerson, Dean, Jr., and Kurtz. 3,204,668.
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- MacBroom, James, to Scovill Mfg. Co. Process and apparatus for making zipper fastener elements. 3,187,540, 8-8-65, Cl. 72-197.
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- Macchi, Anselmo J. Concrete floor and ceiling slab construction. 3,213,581, 10-26-65, Cl. 52-319.
- Macchini, Mario. Universal joint yokes. 3,222,143, 12-7-65, Cl. 29-183.
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- MacLean, Alexander F., and A. L. Stautzenberger, to Celanese Corp. of America. Process for making peracids by the oxidation of aldehydes. 3,192,256, 6-29-65, Cl. 260-502.
- MacLean, Alexander F., to Celanese Corp. of America. Electric discharge process and apparatus. 3,205,162, 9-7-65, Cl. 204-312.
- MacLean, Alexander F., C. C. Hobbs, Jr., and A. L. Stautzenberger, to Celanese Corp. of America. Oxidation of alkanes and alkyl aromatics to aliphatic and aromatic acids. 3,215,733, 11-2-65, Cl. 260-524.
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- Oakley, Gilbert F. 3,202,112.
- Maclean, George, to General Electric Co. Document transferring apparatus. 3,178,179, 4-13-65, Cl. 271-74.
- MacLean, John A., Jr.: See—
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- MacLean, John A., III, deceased (by J. D. MacLean, administrator), and J. A. MacLean, Jr., to MacLean-Fogg Lock Nut Co. Self-locking nut. 3,177,914, 4-13-65, Cl. 151-21.
- MacLean, Joy D.: See—
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- MacLeod, David E., to Carrier Corp. Simplified mounting for air conditioning units. 3,213,636, 10-26-65, Cl. 62-262.
- MacLeod, David M.: See—
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- MacLeod, Donald S.: See—
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- MacLeod, Norman A. Casing descaling method and apparatus. 3,180,418, 4-27-65, Cl. 166-43.
- MacLeod, Thomas L., and J. J. Tolan, Jr. Optical device for determining the size of a surface object from an aircraft. 3,199,197, 8-10-65, Cl. 33-64.
- MacManus, John. Whipping apparatus. 3,209,554, 10-5-65, Cl. 62-306.
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- MacMillan, Charles W., to Bear Mfg. Co. Automotive wheel aligning apparatus. 3,180,033, 4-27-65, Cl. 33-203.12.
- MacMillan, Charles W., to Bear Mfg. Co. Ratio indicator. 3,224,102, 12-21-65, Cl. 33-169.
- MacMillan, Francis S. K., to The Procter & Gamble Co. Germicidal cleansing composition. 3,226,329, 12-28-65, Cl. 252-107.
- MacMillan, James C., and R. L. Schmidt, to Deere & Co. Tree harvester. 3,183,953, 5-18-65, Cl. 144-34.
- MacMillen Ring-Free Oil Co. Inc.: See—
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- MacMillin Hydraulic Engineering Corp.: See—
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- MacNab, Adrian J., and R. S. Treseder, to Shell Oil Co. Corrosion protection. 3,201,335, 8-17-65, Cl. 204-147.
- MacNair, Donald, to Bell Telephone Laboratories. Method for processing oxide coated cathodes. 3,186,786, 6-1-65, Cl. 316-17.
- MacNair, James F., and P. J. Scully, to Hydraulic Elevator & Machine Co., Inc. Hydraulic elevator control. 3,187,844, 6-8-65, Cl. 187-29.
- MacNamara, Elizabeth L., to United States of America, Army. Method of electrodepositing iridium. 3,207,680, 9-21-65, Cl. 204-47.
- Macnamara, Harold C., to National Connector Corp. Connector. 3,176,259, 3-30-65, Cl. 339-91.
- Macnaughton, Bruce: See—
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- MacNeill, John B., B. P. Baker, deceased (by Mellon National Bank and Trust Co., executor), and W. S. Aspey, to Westinghouse Electric Corp. Multi-break fluid-blast circuit breaker. 3,180,959, 4-27-65, Cl. 200-145.
- MacNeill, John H., to Soroban Engineering, Inc. Latched tape reader. 3,217,141, 11-9-65, Cl. 235-61.11.
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- Macomber, Clark C., and A. C. Mueller, to Bell & Howell Co. Camera. 3,220,325, 11-30-65, Cl. 95-10.
- Macomber, James K., to Consolidated Lithographing Corp. Band ribbon feeding mechanism. 3,174,371, 3-23-65, Cl. 83-86.
- Macomber, John W., to United States of America, National Aeronautics and Space Administration. Nuclear reactor control rod assembly with improved driving mechanism. 3,198,709, 8-3-65, Cl. 176-35.
- Macon, Arthur R., to E. I. du Pont de Nemours and Co. Linear 1,3-cyclopentanedi-methanol polyesters of bis-phenylene-4,4'-dicarboxylic acids. 3,198,769, 8-3-65, Cl. 260-75.
- Macon, Arthur R., to E. I. du Pont de Nemours and Co. Linear copolyester of hydroquinone with a mixture of hexahydroisophthalic and hexahydroterephthalic acids. 3,225,003, 12-21-65, Cl. 260-47.
- Macovski, Albert: See—
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- MacPeck, Donald L., B. Phillips, and P. S. Starcher, to Union Carbide Corp. Ethylenically unsaturated epoxy sulfones. 3,220,981, 11-30-65, Cl. 260-49.
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- MacPetrie, Meldrum: See—
Nixon, William O. 3,215,159.
- MacPhail, Malcolm R.: See—
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- MacPhee, Paul A.: See—
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- MacPherson, James R., to Atlantic Research Corp. Spherical booster. 3,218,798, 11-23-65, Cl. 60-35.6.
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- Lucas, Robert A., and MacPhillamy. 3,203,857.
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- Macrander, Max S.: See—
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- Macrander, Max S., to Automatic Electric Laboratories, Inc. Electronic switching network. 3,184,552, 5-18-65, Cl. 179-15.
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- MacSparran, Charles, to Phillips Petroleum Co. Safety flow valve. 3,164,358, 1-5-65, Cl. 251-29.
- Mactavish, Angus W. Rock picker. 3,166,130, 1-19-65, Cl. 171-63.
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- Macy, John M., to Dodge Mfg. Corp. Variable speed drive mechanism. 3,175,409, 3-30-65, Cl. 74-230.17.
- Macy, R. H., & Co., Inc.: See—
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- Macy, Valentine E., Jr.: See—
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- Madaffer, Frank. Dispensing device and counter in combination therewith. 3,165,235, 1-12-65, Cl. 222-38.
- Madansky, Leslie E., to California Plastack, Inc. Lamp assembly for edge-lighted panel. 3,183,844, 5-11-65, Cl. 240-8.16.
- Madansky, Leslie E., to California Plastack, Inc. Plastic captive screw washer. 3,212,387, 10-19-65, Cl. 85-1.
- Madansky, Leslie E., to California Plastack, Inc. Method of fabricating edge-lighted panels. 3,220,903, 11-30-65, Cl. 156-83.
- Madany, George H., 1/4 to V. D. Jarvis. Centrifugal extractor. 3,187,998, 6-8-65, Cl. 232-15.
- Madaus, Dr., & Co. Kommanditgesellschaft: See—Winter, Arrien G. 3,184,887.
- Maddaloni, John B. Dry cell power supply. 3,178,317, 4-13-65, Cl. 136-173.
- Madden, Charles C., to The Bendix Corp. Turbine wobble-overspeed safety. 3,207,473, 9-21-65, Cl. 253-52.
- Madden, George B. Navigational device. 3,217,415, 11-16-65, Cl. 33-66.
- Madden, Homer W. Can orienting machine. 3,165,194, 1-12-65, Cl. 198-33.
- Madden, Homer W. Container palletizing and depalletizing machine. 3,200,969, 8-17-65, Cl. 214-8.5.
- Madden, John J. Combined table and cooker. 3,221,137, 11-30-65, Cl. 219-218.
- Madden, Lemuel A. Vehicle overload supporting device. 3,208,765, 9-28-65, Cl. 280-124.
- Maddern, Edward I.: See—Sturgis, Charles P., Kumpf, and Maddern. 3,224,825.
- Maddox, Crawford: See—Miller, Willard T. 3,189,912.
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- Maddox, William K., to Halliburton Co. Pump valve. 3,191,617, 6-29-65, Cl. 137-516.29.
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- Madeira, William T., to K-D Mfg. Co. Hose-clamp deforming pliers. 3,216,291, 11-9-65, Cl. 81-9.3.
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- Mader, Lyle W., to Control Data Corp. Recognition system for reading machines. 3,176,271, 3-30-65, Cl. 340-146.3.
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- Madoux, Robert S., to The Bristol Co. Orienting and feeding apparatus. 3,199,722, 8-10-65, Cl. 221-9.
- Madewell, Edwin J. Mail box signal. 3,207,427, 9-21-65, Cl. 232-35.
- Madey, Marion J., to Universal Equipment Co. Supporting device. 3,208,170, 9-28-65, Cl. 40-10.
- Madey, Richard, to Republic Aviation Corp. Fissionable fuel power plant. 3,203,173, 8-31-65, Cl. 60-35.5.
- Madigan, Basil M.: See—Hosterman, Harry L., Jr., Madigan, and O'Connor. 3,208,341.
- Madigan Electronics Corp.: See—Gurian, Seymour D., and Schwartz. 3,212,080.
- Madison, Elmo H., to Boise Cascade Corp. Bisulphite pulping of pine wood. 3,210,237, 10-5-65, Cl. 162-61.
- Madison, Elmo H., and W. H. McPherson, to Minnesota and Ontario Paper Co. Groundwood pulp. 3,186,899, 6-1-65, Cl. 162-24.
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- Madison, Ira B., M. Sternberg, and E. A. Neu, Jr., to North American Aviation, Inc. Thrust chamber and turbopump assembly. 3,216,191, 11-9-65, Cl. 60-35.6.
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- Madison, Roy W., R. M. Bliss, Jr., and P. M. Wensing, to Gardner-Denver Co. Roof-bolting machine. 3,218,893, 11-23-65, Cl. 81-55.
- Madison, Shannon L., and D. L. Jones, Jr., to General Motors Corp. Refrigerating apparatus. 3,208,232, 9-28-65, Cl. 62-77.
- Madison, Theodore N., and L. Szeluga, to Royal McBee Corp. Space bar line lock and escapement interlock mechanism. 3,190,429, 6-22-65, Cl. 197-108.
- Madland, Glen R., to Motorola, Inc. Electronic switching circuit. 3,202,904, 8-24-65, Cl. 323-58.
- Madland, Thorvald, to Youngstown Steel Door Co. Control device. 3,179,986, 4-27-65, Cl. 20-24.
- Madlener, Paul, and O. Pecksen. Land mine. 3,205,817, 9-14-65, Cl. 102-8.
- Madlener, Paul, and O. Pecksen, to Industrie-Werke Karlsruhe Aktiengesellschaft. Mine igniters. 3,221,657, 12-7-65, Cl. 102-70.
- Madnick, Herman, and R. Martone, to United States of America, Army. Garment closure. 3,218,652, 11-23-65, Cl. 2-270.
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- Murib, Jawad H., and Maeder. 3,173,760.
- Maeder, Irving L., and L. J. Rekers, to National Distillers and Chemical Corp. Synthesis of diamines. 3,205,154, 9-7-65, Cl. 204-74.
- Maeder, James A. Vibrating feed table for a seed pod sheller. 3,173,423, 3-16-65, Cl. 130-30.
- Madrid, Sam A. Dry shaver guard and hair trimmer attachment. 3,178,815, 4-20-65, Cl. 30-90.
- Madrzyk, Edmund S.: See—Holowaty, Michael O., and Madrzyk. 3,177,361.
- Madsen, Arnold J., to Madsen Service Inc. Demountable oil burner construction. 3,169,571, 2-16-65, Cl. 158-76.
- Madsen, Elmer W., to The Superior Electric Co. Transistor state setting circuit. 3,218,473, 11-16-65, Cl. 307-88.5.
- Madsen, James B., to General Motors Corp. Steel rule die stripping device. 3,167,985, 2-2-65, Cl. 83-139.
- Madsen, Peter A. Fishing reel unit. 3,220,667, 11-30-65, Cl. 242-84.54.
- Madsen, Raymond L., and M. D. Liston, to Beckman Instruments, Inc. Cancellation circuit for non-dispersive infrared analyzer. 3,215,832, 11-2-65, Cl. 250-43.5.
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- Madsen, William L.: See—Hemmeter, George T., and Madsen. 3,200,435.
- Madsen, Leo D., to United States Steel Corp. Method and apparatus for controlling dust in a rotary drilling operation. 3,198,267, 8-3-65, Cl. 175-69.
- Madvig, Robert M.: See—Baldwin, John H., Berry, and Madvig. 3,175,788.
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- Maeda, Hisao. Rotary switch contacts for television tuners including dielectric materials interposed therebetween. 3,221,114, 11-30-65, Cl. 200-11.
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- Maeda, Shozo, K. Yamori, and H. Kamimura, to Sumitomo Chemical Co., Ltd. Process for producing organic isocyanates. 3,184,494, 5-18-65, Cl. 260-453.
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- Hollub, Jean, Lange, and Maeder. 3,206,362.
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- Maeder, Arthur, to Ciba Ltd. Process for the polymerization of strongly basic compounds using 1,2-dichloroethane as solvent. 3,186,973, 6-1-65, Cl. 260-80.3.
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- Maeder, Heinz-Jochem, and W. Haertel, to Klockner-Humboldt-Deutz Aktiengesellschaft. Vibratory grinding mill of the drum type. 3,212,722, 10-19-65, Cl. 241-171.
- Maeder, Heinz-Jochem, and W. Bonger, to Klockner-Humboldt-Deutz Aktiengesellschaft. Vibratory grinding mill. 3,212,723, 10-19-65, Cl. 241-171.
- Maeder, Paul F., 1/2 to P. Levinger. High-efficiency A.C. MHD apparatus. 3,214,614, 10-26-65, Cl. 310-11.
- Maeder, Paul F., to Textron Inc. Recorder tape transport and storage mechanism. 3,217,992, 11-16-65, Cl. 242-55.11.
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- Maerker, John B., H. Shalit, and A. H. Weiss, to Air Products and Chemicals, Inc. Purification of coke-oven light oil. 3,207,802, 9-21-65, Cl. 260-674.
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- Maeser, Mieth, to United Shoe Machinery Corp. Methods of conditioning shoe uppers. 3,176,333, 4-6-65, Cl. 12-142.
- Maestre, Neil E., to United Aircraft Corp. Oscillator frequency stabilization during loss of AFC signal. 3,204,195, 8-31-65, Cl. 331-10.
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- Magee, Carl W., to United States of America, Navy. Hand crimping tool. 3,189,916, 6-15-65, Cl. 81-15.
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- Magee, Daniel S. Cigarette cartons. 3,204,854, 9-7-65, Cl. 229-44.
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- Magee, John E. Indicators for elevator systems. 3,179,917, 4-20-65, Cl. 340-21.
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- Magnuson, Roy M., deceased, by G. I. Magnuson, executrix, 1/2 to G. I. Magnuson and 1/2 to G. I. and R. Magnuson, and L. J. Fox, trustees. Article weighing apparatus and method. 3,199,618, 8-10-65, Cl. 117-1.
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- Maichen, Karl. Closure for squeezable containers. 3,224,030, 12-21-65, Cl. 15-543.
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- Maier, Siegfried, to Daimler-Benz Aktiengesellschaft. Compressor construction. 3,176,917, 4-6-65, Cl. 230-215.

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- Maille, James B., to The Firestone Tire & Rubber Co. Fluid pressure regulating device. 3,204,822, 9-7-65, Cl. 222-52.
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- Main, Robert M., to Laboratory For Electronics, Inc. Gaseous concentration and separation apparatus. 3,184,901, 5-25-65, Cl. 55-102.
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- Maroux, Henri. Straddle row cultivator. 3,168,148, 2-2-65, Cl. 172-42.
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- Margolis, Joel, to The Royal Alexandra Hospital for Children. Warming and shaking apparatus. 3,226,094, 12-28-65, Cl. 259-13.
- Margolis, Morris I. Imitated normal hard book cover. 3,169,029, 2-9-65, Cl. 281-29.
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- Margot, Alfred. O-benzylaminoalkyl-N-phenylurethanes. 3,221,042, 11-30-65, Cl. 260-472.
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- Margulies, Paul H., and W. J. Tillis, to FMC Corp. Process for producing corrosion resistant coating of barium ferrate on ferrous metals. 3,206,384, 9-14-65, Cl. 204-56.
- Margulies, Samuel, to High Point Seamless Hosiery Mills Co. Stocking and method of making the same. 3,216,223, 11-9-65, Cl. 66-178.
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- Margulis, Lawrence G., and E. A. Zanger, Jr., to Kulicke & Soffa Mfg. Co. Probe instrument for inspecting semiconductor wafers including means for marking defective zones. 3,185,927, 5-25-65, Cl. 324-158.
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- Marino, Angelo. Elastic amusement toy. 3,179,409, 4-20-65, Cl. 272-57.
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- Marino, Salvatore. Lettering guide line instrument. 3,166,847, 1-26-65, Cl. 33-41.
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- Markisen, Russell G., to Walker Mfg. Co. Pipe joint having internally stressed flange providing continuing axial bias. 3,179,449, 4-20-65, Cl. 285-368.
- Markisen, Russell G., to Walker Mfg. Co. Connector. 3,216,750, 11-9-65, Cl. 285-179.
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- Markle, Jacob E., and R. L. Whitcomb, Jr. Combination sales register and game. 3,181,868, 5-4-65, Cl. 273-139.
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- Markowitz, Meyer M., to Foote Mineral Co. Controlling the decomposition rate of lithium perchlorate. 3,175,979, 3-30-65, Cl. 252-186.
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- Marks, Alvin M., and E. Barreto, to Marks Polarized Corp. Power conversion device. 3,191,077, 6-22-65, Cl. 310-5.
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- Marks, Craig, to General Motors Corp. Three phase piezo-electric generator. 3,168,660, 2-2-65, Cl. 310-8.7.
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- Marks, Eugene A., D. R. Mowry, R. B. Sperling, and E. M. Wilson, to Bourns, Inc. Pressure potentiometer arrangement. 3,172,069, 3-2-65, Cl. 338-41.
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- Markus, Richard L., to Stepan Chemical Co. Process for the preparation of rose oxide. 3,166,576, 1-19-65, Cl. 260-345.1.
- Markus, Richard L., to White Laboratories, Inc. Process of treating diarrhea with resins. 3,202,577, 8-24-65, Cl. 167-55.
- Markwardt, Anton H., to Peerless Gear & Engineering, Inc. Plow attachment for vehicles. 3,201,878, 8-24-65, Cl. 37-42.
- Markway, Le Roy H.: See—
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- Markwood, William H., Jr., to Hercules Powder Co. Uniaxial orientation of polypropylene film. 3,214,503, 10-26-65, Cl. 264-210.
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Dunn, Lyman D., and Gumbickl. 3,225,801.
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- Marland, Joseph A. One-way clutch with splash and gravity flow lubricating system. 3,175,667, 3-30-65, Cl. 192-113.
- Marland, Joseph A. One-way clutch, bearing and cooling means therefor. 3,181,674, 5-4-65, Cl. 192-113.
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- Marland, Joseph A., and C. W. Hill; said Hill assor. to said Marland. One-way clutch with lubricant containing housing. 3,198,305, 8-3-65, Cl. 192-113.
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- Marler, Arnold H. Combined handle and pouring spout. 3,181,733, 5-4-65, Cl. 222-83.
- Marler, Arnold H. Handle and pouring spout with attaching means. 3,185,358, 5-25-65, Cl. 222-475.
- Marler, Arnold H. Handles. 3,185,515, 5-25-65, Cl. 294-27.
- Marlette, Goley R., and W. D. Winfree, to Vac Hosiery Corp. Non-run hosiery and method of forming same. 3,212,298, 10-19-65, Cl. 66-178.
- Marlette, Goley R., and N. M. Pierce. Circular hosiery knitting machine. 3,212,300, 10-19-65, Cl. 66-48.
- Marley Co., The: See—
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- Shryock, Howard A. 3,226,098.
- Marley, Daniel B. Spraying apparatus for washing cattle. 3,221,708, 12-7-65, Cl. 319-158.
- Marley, David J. Hydrodynamic foil bearings with bearing foil retaining means. 3,215,450, 11-2-65, Cl. 308-121.
- Marley, James A., Jr.: See—
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- Marley, John, to Hazeltine Research, Inc. Magnetic deflection yoke. 3,195,025, 7-13-65, Cl. 317-200.
- Marley, John M., to Clearway Couplings Ltd. Quick-release fastening. 3,192,586, 7-6-65, Cl. 24-196.
- Marley, Stanford. Reversible rotary hosiery mending apparatus. 3,196,638, 7-27-65, Cl. 66-1.
- Marlo, Arvid. Molding unit. 3,175,250, 3-30-65, Cl. 18-39.
- Marlo Coll Co.: See—
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- Marlow, Anthony V., and W. A. M. Allen, to Henry Simon, Ltd. Flour milling process. 3,211,385, 10-12-65, Cl. 241-11.
- Marlow, Keith H., and J. H. Want, to Ferguson Radio Corp. Ltd. Channel selectors for television receivers. 3,187,589, 6-8-65, Cl. 74-10.7.
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- Marmac Co., The: See—
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- Marman, John E.: See—
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- Marn, Alan D.: See—
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- Maro, Joseph J., to Waldorf Paper Products Co. Tube display. 3,166,281, 1-19-65, Cl. 248-108.

- Maro, Joseph J., to Waldorf Paper Products Co. Display folder. 3,185,292, 5-25-65, Cl. 206-45.14.
- Marock, Otto: See—
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- Maropis, Nicholas: See—
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- Maropis, Nicholas, to Aeroprojects Inc. Method and apparatus for delivering vibratory energy. 3,184,842, 5-25-65, Cl. 29-471.
- Marosy, Andre. Separable fastener. 3,165,804, 1-19-65, Cl. 24-230.
- Marotta, Carl D.: See—
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- Marotta, Nicholas G., and J. J. Ryan, to National Starch and Chemical Corp. Method for the preparation of dustless starches. 3,173,807, 3-16-65, Cl. 127-32.
- Marotta Valve Corp.: See—
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- Marous, Leonard E., and C. D. McCleary, to United States Rubber Co. Polymerization catalyst for vinyl chloride. Re. 25,763, 4-13-65, Cl. 260-92.8.
- Marpe, Donald E.: See—
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- Caldwell, William I. 3,178,151.
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- Marquardt, Julius F.: See—
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- Marquart, Gail E., and H. L. Simulated bible book. 3,175,305, 3-30-65, Cl. 35-23.
- Marquart, Helen L.: See—
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- Marquez, Justin J. Method of cutting with a convertible chip knife. 3,220,447, 11-30-65, Cl. 144-309.
- Marquez, Ralph, and W. J. Bua, to Productive Ideas Unlimited, Inc. Package convertible to a toy. 3,195,265, 7-20-65, Cl. 46-11.
- Marquis, Donald P., and M. A. Schultz, to General Motors Corp. Directional signal switch operating mechanism. 3,207,867, 9-21-65, Cl. 200-61.34.
- Marquis, John E., and R. E. Carpenter, to The Glidden Co. Pink ceramic stain and process. 3,189,475, 6-15-65, Cl. 106-299.
- Marra, Daniel A., Sr. Scarfing torch tip. 3,181,588, 5-4-65, Cl. 158-27.4.
- Marra, Ivan L., to Fre-Mar Industries. Process for producing sealing material. 3,187,070, 6-1-65, Cl. 264-171.
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- Marrs, Roscoe E., to General Electric Co. Method and apparatus for controlling the thickness of rolled strip material. 3,170,344, 2-23-65, Cl. 80-35.
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- Mars, Pieter to Stamlicarbon N.V. Hydrogenation of benzoic acid to cyclohexane-carboxylic acid. 3,210,411, 10-5-65, Cl. 260-514.
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- Marsal, Paul A., deceased (by J. Y. Marsal, executrix), and A. Tasch, to Union Carbide Corp. Cell charging device. 3,164,764, 1-5-65, Cl. 320-53.
- Marschak, Howard J. Display stand. 3,174,442, 3-23-65, Cl. 108-27.
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- Marschak, Howard J. Price tag molding and the manner of attaching same. 3,204,357, 9-7-65, Cl. 40-16.
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- Marsden, James, to General Electric Co. Sillylarylene compositions. 3,167,528, 1-26-65, Cl. 260-46.5.
- Marsden, John B.: See—
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- Marsh, Adam J., to The North American Coal Corp. Method of recovering mono-acidic aluminum sulfate hydrate. 3,193,345, 7-6-65, Cl. 23-123.
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- Marsh, Glenn A., to The Pure Oil Co. Method and apparatus for detecting changes in composition of liquid flowing through a pipe line. 3,192,473, 6-29-65, Cl. 324-61.
- Marsh, Glenn A., to The Pure Oil Co. Electrical resistance corrosion probe. 3,197,724, 7-27-65, Cl. 338-13.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Ferrous electrode. 3,186,931, 6-1-65, Cl. 204-107.
- Marsh, Glenn A., and R. L. Littler, to The Pure Oil Co. Method and apparatus for estimating corrosion rate. 3,197,388, 7-27-65, Cl. 204-1.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Process for determining cathodically protecting current densities. 3,207,678, 9-21-65, Cl. 204-1.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Electrical device having uniquely positioned electrodes for determining metal loss from tubular members. 3,207,981, 9-21-65, Cl. 324-65.
- Marsh, Glenn A., and E. Schaschl, to Union Oil Co. of California. Unitary corrosion test probe having a tubular reference specimen. 3,222,920, 12-14-65, Cl. 73-86.
- Marsh, Glenn A., and A. E. Wolter, to Union Oil Co. of California. Method and apparatus of eliminating spark hazards. 3,223,604, 12-14-65, Cl. 204-147.
- Marsh, Harry A., Jr., to E. J. Lavino and Co. Interlocking brick. 3,199,477, 8-10-65, Cl. 110-99.
- Marsh, Harry A., Jr., to E. J. Lavino and Co. Interlocking pin-socket refractory brick. 3,204,586, 9-7-65, Cl. 110-99.
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- Marsh, Lynn W., Jr., to Analex Corp. Hammer suspension for high speed printer. 3,187,668, 6-8-65, Cl. 101-93.
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- Marsh, Owen T. Convertible carton. 3,190,532, 6-22-65, Cl. 229-8.
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- Marsh Stencil Machine Co.: See—
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- Marshall, Charles W., to G. D. Searle & Co. 3-aminoalkyl ethers of 17-oxygenated androst-5-en-3-ols and 20-oxygenated pregn-5-en-3-ols, and 5a,6-dihydro compounds corresponding. 3,206,457, 9-14-65, Cl. 260-239.5.
- Marshall, Charles W., to G. D. Searle & Co. Aminoalkyl esters of 3β-hydroxypregn-5-en-20-one. 3,215,689, 11-2-65, Cl. 260-239.5.
- Marshall, Charles X., 1/2 to G. F. Sager. Mounting assembly for a toilet flush ball. 3,181,177, 5-4-65, Cl. 4-57.
- Marshall, Clifford D., and P. B. Kelly, to Shell Oil Co. Base coated with a linear thermoplastic polyether. 3,177,089, 4-6-65, Cl. 117-72.
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- Marshall, David M., and A. B. Steever, to The Babcock & Wilcox Co. Method and apparatus for igniting and burning gaseous fuel. 3,202,200, 8-24-65, Cl. 158-169.
- Marshall, David W., to Continental Oil Co. Preparation of ketones. 3,168,570, 2-2-65, Cl. 260-593.
- Marshall, Don J., to Dixon Valve & Coupling Co. Hose coupling connection. 3,167,331, 1-26-65, Cl. 285-27.
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- Marshall, Don J., to Dixon Valve & Coupling Co. Pressure responsive fluid tight hose coupling. 3,222,091, 12-7-65, Cl. 285-95.
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- Marshall, Harry L., and R. J. Rorden, to Varian Associates. Temperature control system. 3,213,929, 10-26-65, Cl. 165-35.
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- Marshall, James W., to The Black and Decker Mfg. Co. Armature and method of making the same. 3,212,170, 10-19-65, Cl. 29-155.53.
- Marshall, John H., to International Business Machines Corp. Method of making a printed circuit and base therefor. 3,171,756, 3-2-65, Cl. 117-212.
- Marshall, John H., to International Business Machines Corp. Process of producing metallic deposits. 3,222,207, 12-7-65, Cl. 117-47.
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- Marshall, Maurice B., to Consolidated Electronics Industries Corp. Motion damper for intermittent rotary devices. 3,197,659, 7-27-65, Cl. 310-49.
- Marshall, Mervin D., to Callery Chemical Co. Preparation of amine-boranes. 3,192,217, 6-29-65, Cl. 260-290.
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- Marshall and Williams Corp.: See—
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- Marsico, Vincent J. Means for and method of cutting hair. 3,223,092, 12-14-65, Cl. 132-7.
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- Martelli, Guido, N. and F., to Compagnia Italiana Nest-Pack S.p.A. Rotary machine for the combined automatic vacuum- and pressure-forming of continuous thermoplastic bands. 3,181,202, 5-4-65, Cl. 18-19.
- Martelli, Luigi, and C. Reinberg. Electronic self-contained apparatus for sound or voice communication. 3,210,723, 10-5-65, Cl. 340-5.
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- Martello, Chester A.: See—
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- Marten, John S.: See—
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- Martens, Alexander E.: See—
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- Martens, Alexander E., to Bausch & Lomb Inc. Modified Wien-bridge RC oscillator. 3,206,697, 9-14-65, Cl. 331-141.
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- Martens, Jack E., to The Anderson Co. Screw-nut device. 3,164,029, 1-5-65, Cl. 74-424.8.
- Martens, Jack E., to The Anderson Co. Motion-transmitting device. 3,178,957, 4-20-65, Cl. 74-424.8.
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- Marti, Frederic, to "Industrielle de Precision Marti-I.P.M." Methods of cold extruding metals. 3,199,324, 8-10-65, Cl. 72-42.
- Marti, Frederic, and G. Braunschweig. Miniature electric motor. 3,184,623, 5-18-65, Cl. 310-36.
- Martin, Afton V., and A. T. Talbato, to Automatic Voting Machine Corp. Public and protective counters. 3,219,270, 11-23-65, Cl. 235-91.
- Martin, Afton V., and A. T. Galbato, to Automatic Voting Machine Corp. Detent pointer channel. 3,223,317, 12-14-65, Cl. 235-54.
- Martin, Alan. Rivet tool. 3,197,987, 8-3-65, Cl. 72-11.4.
- Martin, Albert V., to Honeywell Inc. Electrical measuring apparatus with automatic integrating action. 3,187,186, 6-1-65, Cl. 250-231.
- Martin, Allan D., and I. S. Houvenier, to The Dow Chemical Co. Extrusion apparatus. 3,172,164, 3-9-65, Cl. 18-12.
- Martin, Anthony E.: See—
Barnard, Mark C. S., and Martin. 3,216,367.
- Martin Automatic Fishing Reel Co., Inc.: See—
Maury, Alfred D., and Lyon. 3,175,781.
- Martin, Bertice A., and V. W. H. Rassbach, to Sturdl Mfg. Co. Base for washing machines. 3,186,247, 6-1-65, Cl. 137-343.
- Martin, Beverly: See—
Martin, Samuel W., and Shea. 3,173,769.
- Shea, Frederick L., Jr., and Martin. 3,171,720.
- Martin, Byron N., 1/2 to D. J. Eardley. Apparatus for beach building. 3,214,916, 11-2-65, Cl. 61-4.
- Martin, Charles L.: See—
Goerner, Johannes G., Lerner, and Martin. 3,166,276.

- Martin, Charles L., and M. C. Brown, to ACF Industries, Inc. Carburetor. 3,169,154, 2-9-65, Cl. 261-41.
- Martin, Charles M., R. O. Myers, K. C. Le Gros, E. E. Evans, and E. A. Marheine, to Automatic Electric Laboratories, Inc. Automatic telephone answering and message recording system. 3,226,478, 12-28-65, Cl. 179-6.
- Martin, Chester C. Chain wrench. 3,205,735, 9-14-65, Cl. 81-68.
- Martin, Clarence A. Dental matrix application tool. 3,216,112, 11-9-65, Cl. 32-63.
- Martin, Dalton W.: See—
- Bahrs, George S., Martin, and McWhorter. 3,205,448.
- Martin, Daniel W., to D. H. Baldwin Co. Chorus effects in electronic organ. 3,215,767, 11-2-65, Cl. 84-124.
- Martin, David G.: See—
- Kagan, Fred, and Martin. 3,211,723.
- Martin, David G., to The Upjohn Co. 3,3-difluoroandrostanes. 3,221,034, 11-30-65, Cl. 260-397.5.
- Martin, David G., and W. J. Wechter, to The Upjohn Co. 20-difluoro-pregnanes and methods to prepare same. 3,171,845, 3-2-65, Cl. 260-397.3.
- Martin, Donald F.: See—
- Godfrey, Charles S., and Martin. 3,176,613.
- Martin, Donald W.: See—
- Mann, Robert L., and Martin. 3,193,785.
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- Martin, Earl T., and R. F. Theobald, to Pittsburgh Plate Glass Co. Apparatus for producing glass fibers. 3,168,388, 2-2-65, Cl. 65-1.
- Martin, Edward R., to Phillips Petroleum Co. Hollow moulded crate. 3,220,596, 11-30-65, Cl. 220-21.
- Martin, Elmore L., to E. I. du Pont de Nemours and Co. Hexacyano-2-butene acids and salts and preparation thereof. 3,179,692, 4-20-65, Cl. 260-465.
- Martin, Elmore L., and J. K. Williams, to E. I. du Pont de Nemours and Co. Aralkylcyanofurans. 3,166,583, 1-19-65, Cl. 260-465.
- Martin, Emmett V., to Eastman Kodak Co. Elastomeric yarn. 3,169,363, 2-16-65, Cl. 57-152.
- Martin, Emmett V. Process and apparatus for orienting yarn. 3,221,088, 11-30-65, Cl. 264-181.
- Martin, Erich. Pin setting mechanism with means for setting selected pins on correlated pin spots. 3,174,751, 3-23-65, Cl. 273-43.
- Martin, Erich. Multi-stage engine and method for operating the engine by combustion. 3,214,907, 11-2-65, Cl. 60-39.16.
- Martin, Ernest N. Centrifugal flinger for preventing leakage through a wall. 3,219,321, 11-23-65, Cl. 259-10.
- Martin, Ernest N., and D. B. Maxson. Mixing and aerating apparatus. 3,212,757, 10-19-65, Cl. 259-4.
- Martin, Erwin H. E., and R. N. Thomson, to Dunlop Rubber Co. Ltd. Floating platforms. 3,171,141, 3-2-65, Cl. 9-11.
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- Gehman, Roland P., Martin, and Smith. 3,186,016.
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- Lacy, John E., and Martin. 3,209,827.
- Lacy, John E., and Martin. 3,215,201.
- Martin, Floyd E. Pipe forming machine. 3,205,550, 9-14-65, Cl. 25-32.
- Martin, Frank A., to The Hoover Co. Coating for steam iron flash holder. 3,218,741, 11-23-65, Cl. 38-77.
- Martin, Frank A., M. E. Bixler, and C. W. Studer, to The Hoover Co. Defoamer bar for suction scrubber. 3,200,080, 8-10-65, Cl. 252-358.
- Martin, Frank C. Electrical protection system. 3,193,730, 7-6-65, Cl. 317-46.
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- Bharucha, Kekhusroo R., and Martin. 3,168,535.
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- Martin, Frederick A.: See—
- Baxter, Joseph, Jr., Corbin, Green, Martin, and Rojecki. 3,215,594.
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- Martin, George F.: See—
- Parr, Norman L., and Martin. 3,222,438.
- Martin, George F., to The Mead Corp. Container for packaging yarn on spools or bobbins. 3,172,534, 3-9-65, Cl. 206-65.
- Martin, George H.: See—
- Edminson, John A., and Martin. 3,186,176.
- Martin, George J., to Parker-Hannifin Corp. Fluid system and relief valve assembly therefor. 3,212,523, 10-19-65, Cl. 137-596.13.
- Martin, George R., and N. B. Lorette, to The Dow Chemical Co. Vapor phase preparation of allyl-substituted ketones. 3,188,350, 6-8-65, Cl. 260-586.
- Martin, George V., to Western Electric Co., Inc. Apparatus for sorting articles having an asymmetrical end. 3,193,096, 7-6-65, Cl. 209-74.
- Martin, Georges, to Compagnie de Saint-Gobain. Plate column. 3,168,600, 2-2-65, Cl. 261-140.
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- Zisteln, Melvin B., Curtiss, and Martin. 3,212,515.
- Martin, Gordon H.: See—
- Bredtschneider, Kurt B., and Martin. 3,204,930.
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- Martin, Gustav J., to William H. Rorer, Inc. Anti-inflammatory, anti-edema and anti-thrombi drug. 3,224,942, 12-21-65, Cl. 167-73.
- Martin, Hans. Lacing system for footwear, particularly ski-boot fastener. 3,163,900, 1-5-65, Cl. 24-70.
- Martin, Harold R.: See—
- Schwester, Daniel P., Martin, and O'Loughlin. 3,186,047.
- Martin, Harold F., to International Business Machines Corp. Light-sensitive glow discharge apparatus. 3,198,980, 8-3-65, Cl. 315-84.5.
- Martin, Harold W., to American Machine & Foundry Co. Sanding machine. 3,187,472, 6-8-65, Cl. 51-174.
- Martin & Harris (Private) Ltd.: See—
- Roy, Krishnabandhu N. 3,198,704.
- Martin, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor devices with cooling plates. 3,226,466, 12-28-65, Cl. 174-15.
- Martin, Helmut, and G. Mohring, to Hackethal-Draht und Kabel-Werke Aktiengesellschaft. Helically corrugated waveguide transition section. 3,188,586, 6-8-65, Cl. 333-95.
- Martin, Helmut, and G. Mohring, to Hackethal-Draht und Kabel-Werke Aktiengesellschaft. Corrugated waveguides. 3,201,723, 8-17-65, Cl. 333-95.
- Martin, Henry, H. Aebi, and L. Ebner, to Ciba Ltd. Carbanil-hydroxamic acid esters. 3,165,549, 1-12-65, Cl. 260-552.
- Martin, Henry, and H. Aebi, to Ciba Ltd. N-trifluoromethyl-phenyl urea. 3,177,249, 4-6-65, Cl. 260-552.
- Martin, Henry, and H. Aebi, to Ciba Ltd. Method for de-atroving weeds. 3,184,301, 5-18-65, Cl. 71-2.6.
- Martin, Henry, and A. Rupert, to Ciba Ltd. Treatment of synthetic products, especially synthetic fibers. 3,200,035, 8-10-65, Cl. 167-38.6.
- Martin, Henry, H. Aebi, and L. Ebner, to Ciba Ltd. 1-(4-bromophenyl)-3-methoxy-3-methyl-urea. 3,223,721, 12-14-65, Cl. 260-453.
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- Martin, Herbert, to J. Eberspacher. Muffler with dual pairs of curved and perforated chamber defining walls. 3,189,122, 6-15-65, Cl. 181-56.
- Martin, Hollinshead T., A. I. Ericsson, and I. J. Vilcins, to Lignode Corp. Ligature joint and seal therefor. 3,197,831, 8-3-65, Cl. 24-16.
- Martin, Jacques E., to Societe d'Electronique et d'Automatisme. Production of potentiometers. 3,311,031, 10-12-65, Cl. 83-5.
- Martin, James. Vehicle ejection seats. 3,173,333, 3-16-65, Cl. 89-1.
- Martin, James. Airmen's seat harnesses. 3,178,223, 4-13-65, Cl. 297-385.
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- Martin, James. Vehicle escape systems. 3,180,593, 4-27-65, Cl. 244-122.
- Martin, James. Ejection of one body from another. 3,186,662, 6-1-65, Cl. 244-122.
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- Martin, James. Aircraft ejection seats. 3,214,118, 10-26-65, Cl. 244-122.
- Martin, James. Aircraft ejection seats. 3,215,376, 11-2-65, Cl. 244-122.
- Martin, James. Harness safety device for aircraft seats. 3,220,668, 11-30-65, Cl. 242-107.4.
- Martin, James L., and N. B. Howard, to The Procter & Gamble Co. Culinary composition containing edible acidic lipid anhydrides. 3,168,405, 2-2-65, Cl. 90-91.
- Martin, James C.: See—
- Elam, Edward U., and Martin. 3,189,643.
- Martin, James C., to Eastman Kodak Co. Tertiaryamino cyclobutanones and their production. 3,189,608, 6-15-65, Cl. 260-247.7.
- Martin, James H. Retractable stadium seat. 3,170,199, 2-23-65, Cl. 20-1.126.
- Martin, James L., to Currency Protection, Inc. Robbery protective device. 3,174,245, 3-23-65, Cl. 42-1.
- Martin, James L., to Currency Protection, Inc. Robbery protective device with time delay means. 3,174,246, 3-23-65, Cl. 42-1.
- Martin, James R., and C. F. Stockton, to Easy Horse Inc. Saw horse. 3,177,974, 4-13-65, Cl. 182-135.
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- Martin, Johannes J. Fuel charging apparatus for large furnaces. 3,170,577, 2-23-65, Cl. 214-23.
- Martin, John, to Fabricacion De Maquinas, S. A. Blank mold means with pneumatic operated plunger for fabricating seamless high optical quality glass articles. 3,214,258, 10-26-65, Cl. 65-318.

- Martin, John, to The Laitram Corp. Apparatus for the treatment of edible crustacea. 3,220,049, 11-30-65, Cl. 17-2.
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- Martin, John C., to Bailey Meter Co. Direct voltage amplifier. 3,206,691, 9-14-65, Cl. 330-9.
- Martin, John C., to Bunn-O-Matic Corp. Coffee making machine. 3,220,334, 11-30-65, Cl. 99-282.
- Martin, John C. Pulse generator. 3,225,223, 12-21-65, Cl. 307-108.
- Martin, John E., to United Shoe Machinery Corp. Circularly polarized dipole. 3,196,443, 7-20-65, Cl. 343-797.
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- Martin, John F., to Phelon Magnagrip Co., Inc. Magnetic holder. 3,195,021, 7-13-65, Cl. 317-159.
- Martin, John J., to Highway Trailer Industries, Inc. Bogle equalizer lock mechanism. 3,184,251, 5-18-65, Cl. 280-104.5.
- Martin, John S., 20% to W. D. Stokes. Automatic cooking utensil. 3,226,528, 12-28-65, Cl. 219-441.
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- Martin, John W., J. F. Hultquist, and D. W. MacGlashan, to The Bendix Corp. False alarm rate stabilizer. 3,181,157, 4-27-65, Cl. 343-17.1.
- Martin, John W., to Dandy Machine Specialties, Inc. Peak reading indicator. 3,212,324, 10-19-65, Cl. 73-88.5.
- Martin, John W., and O. H. Baust, to The Bendix Corp. Linear amplifier system. 3,214,757, 10-26-65, Cl. 343-17.1.
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- Martin, Joseph, and A. C. Voegelé. Phonograph record rack and selector. 3,216,773, 11-9-65, Cl. 312-19.
- Martin, Joseph A., to American Machine & Foundry Co. Pulse generating control system including transistor and regenerative feedback. 3,219,844, 11-23-65, Cl. 307-88.5.
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- Martin, Kenneth J., to Rohm & Haas Co. Process for the preparation of N.F.A. 3,220,800, 11-30-65, Cl. 23-205.
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- Martin, Lewis W. Gravity toy train. 3,205,617, 9-14-65, Cl. 46-218.
- Martin, Louis, to Rollon Corp. Metal clashboard siding for buildings. 3,218,772, 11-23-65, Cl. 52-508.
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- Martin, Lynn W. Method of powering a precession toy. 3,191,341, 6-29-65, Cl. 46-65.
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- Martin, Robert P. Snake-proof trousers and the like. 3,191,185, 6-29-65, Cl. 2-22.
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- Martin, Robert L., and G. B. Benander, to General Electric Co. Lamp adapter for two-filament lamps. 3,217,116, 11-9-65, Cl. 200-51.03.
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- Martin, Thomas L., Jr.: See—
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- Martin, Van C., to International Business Machines Corp. Printer control system. 3,192,854, 7-6-65, Cl. 101-93.
- Martin, Wallace B. Ratchet drive mechanism. 3,175,408, 3-30-65, Cl. 74-142.
- Martin, Walter H., to Refrigeration Engineering Corp. Endless conveyor type freezer. 3,173,276, 3-16-65, Cl. 62-380.
- Martin, Warren R., and R. L. Kuykendall. Toy. 3,220,398, 11-30-65, Cl. 124-12.
- Martin, Wayne, to William F. Jobbins, Inc. Aluminum base casting alloys and method. 3,199,979, 8-10-65, Cl. 75-148.
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- Martin, Wayne D. Self-closing gate. 3,222,806, 12-14-65, Cl. 39-84.
- Martin, Wayne T., to Electric Heating Supply, Inc. Manifold. 3,192,850, 7-6-65, Cl. 98-38.
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- Martin, William A., to Eastman Kodak Co. Film cassette. 3,212,838, 10-19-65, Cl. 352-78.
- Martin, William B. Lamp structure. 3,178,569, 4-13-65, Cl. 240-108.
- Martin, William B., and L. R. Swett, to Abbott Laboratories. N-(pyridyl alkylene)-2-propynylamines. 3,211,741, 10-12-65, Cl. 260-296.
- Martin, William C., Jr.: See—
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- Martin, William C., Jr., and R. K. Nelson, to Carrier Corp. Spring insertion. 3,177,565, 4-13-65, Cl. 29-202.
- Martin, William C., Jr., and H. S. Rush, to Carrier Corp. Apparatus for treating air. 3,191,363, 6-29-65, Cl. 55-257.
- Martin, William E. Suspended elevator scraper attachment. 3,170,254, 2-23-65, Cl. 37-8.
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- Martin, William M. Solids metering and feeding device. 3,178,066, 4-13-65, Cl. 222-142.
- Martin, William M. Process for sterile food packaging. 3,180,740, 4-27-65, Cl. 99-182.
- Martin, William M. Liquid metering and mixing device. 3,212,674, 10-19-65, Cl. 222-67.
- Martin, William M., Jr. Food produce packing apparatus. 3,178,867, 4-20-65, Cl. 53-248.
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- Martinielli, Robert. Microtome knife. 3,225,639, 12-28-65, Cl. 83-915.5.
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- Martinez, Celis M. Goods dispensing device for supermarkets. 3,220,162, 11-30-65, Cl. 53-390.
- Martinez, Celis M. Check-out counter for supermarkets or the like. 3,220,163, 11-30-65, Cl. 53-390.
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- Martini, William R., to North American Aviation, Inc. Regenerative thermionic converter. 3,223,858, 12-14-65, Cl. 310-4.
- Martiniak, Leonard J., to General Electric Co. Domestic appliance. 3,170,743, 2-23-65, Cl. 312-213.
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- Martino, Louis J., to McDonald's System, Inc. Cooking apparatus for deep fat frying. 3,213,778, 10-26-65, Cl. 99-331.
- Martino, Louis J., W. E. Moll, and R. E. Welmer, to McDonald's System, Inc. Shipping and storage container. 3,193,095, 7-6-65, Cl. 206-65.
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- Martins, Joseph G., to Monsanto Co. Heat stabilization of polyvinyl alcohol with aliphatic polycarboxylic acid. 3,220,991, 11-30-65, Cl. 260-91.3.
- Martinson, Edwin O., to Koehring Co. Self-batching mixer. 3,167,307, 1-26-65, Cl. 259-154.
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- Marx, Walter O. A., deceased, by A. G. Marx (nee Wiemer), G. L. Kemme (nee Marx), U. M. Marx, H. D. Marx, D. F. Marx, heirs, S. G. Marx, minor child (by E. Angelberger, trustee), and R. Chavee, to Knapsack-Griesheim Aktiengesellschaft. Magnesium-manganese alloy for use in a pyrotechnical composition. 3,193,375, 7-6-65, Cl. 75-5.
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- Marxer, Adrian, to Ciba Corp. Vanadium complex salts with hydrazino pyridazines and phthalazines. 3,169,961, 2-16-65, Cl. 260-242.
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- Masaki, Hitoshi, S. Otake, A. Kaneda, and Y. Arakawa, to Asahi Denki Kogyo Kabushiki Kaisha. Adjustable vibrating reed relay. 3,213,233, 10-19-65, Cl. 200-90.
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- Matthews, Harry L. Powered tallgate lift. 3,185,322, 5-25-65, Cl. 214-75.
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- Matthews, Jamie F., Jr., to Esso Production Research Co. Offshore method and apparatus. 3,219,116, 11-23-65, Cl. 166-46.
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- Matthias, Lynn H., to Allen-Bradley Co. Reed switch control. 3,215,795, 11-2-65, Cl. 200-87.
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- Mattox, William J., to Esso Research and Engineering Co. Conversion of inactive olefins. 3,214,487, 10-26-65, Cl. 260-683.2.
- Matts, Sigvard, and B. Ekelund, to Svenska Flakfabriken, Aktiebolaget. Means for governing the pressure in ventilating units. 3,174,507, 3-23-65, Cl. 187-565.
- Mattson, Charles A., to Sunbeam Corp. Oscillating sprinkler clamp member and control knob construction. 3,220,655, 11-30-65, Cl. 239-242.
- Mattson, Charles A., and W. V. Kalnins, to Sunbeam Corp. Lawn sprinkler. 3,219,277, 11-23-65, Cl. 239-253.
- Mattson, Charles A., M. E. Olsen, F. O. Ottosen, deceased (by H. Ottosen, executrix), to Sunbeam Corp. Combination lawn edger and trimmer. 3,221,481, 12-7-65, Cl. 56-25.4.
- Mattson, Everett L., to Automatic Welding Co. Apparatus for manipulating workpieces. 3,224,602, 12-21-65, Cl. 214-1.
- Mattson, John R., and R. D. Propulsion system for small boats. 3,194,205, 7-13-65, Cl. 115-12.
- Mattson, Richard E., and B. G. Winstrom, to A. O. Smith Corp. Extrusion apparatus. 3,181,384, 5-4-65, Cl. 72-255.
- Mattson, Richard W. Overrunning clutch. 3,174,598, 3-23-65, Cl. 192-45.
- Mattson, Roger P. Urine test kit. 3,175,553, 3-30-65, Cl. 128-2.
- Mattson, Roy D.: See—
- Mattson, John R., and R. D. 3,194,205.
- Mattson, William R., to Sylvania Electric Products Inc. Feeding device. 3,199,803, 8-10-65, Cl. 242-57.
- Mattsson, Per O.: See—
- Embring, Paul G., and Mattsson. 3,211,614.
- Embring, Paul G., and Mattsson. 3,216,900.
- Matul, Hiroyuki: See—
- Murata, Kazumi, and Matul. 3,193,690.
- Matulatis, Victor E. Rapid heating engine cooling system. 3,211,374, 10-12-65, Cl. 237-8.
- Matusche, Heinz, to J. Dethloff. Apparatus for producing pressure waves. 3,218,484, 11-16-65, Cl. 307-104.
- Matuschka, Bernhard, and G. Morini. Structural steel and process for making same. 3,207,637, 9-21-65, Cl. 148-12.4.
- Matuschkovitz, Richard K.: See—
- Masella, Anthony J., and Matuschkovitz. 3,202,201.
- Matuschkovitz, Richard K., to Chemetron Corp. Desulfurization of iron. 3,199,975, 8-10-65, Cl. 75-43.
- Matuszak, Alfred H.: See—
- Metro, Stephen J., Matuszak, and Barnum. 3,223,636.
- Matuszko, Anthony J., and M. S. Chang, to United States of America, Navy. Methylamine nitroform oxidizer in nitrocellulose aluminum and metrol trinitrate propellants. 3,222,233, 12-7-65, Cl. 149-92.
- Matvay, Leo. Plasma flame hyperthermal exothermic furnace with catalyst and combination thereof with an internal combustion engine. Re. 25,858, 9-21-65, Cl. 60-30.
- Matvay, Leo. Plasma flame jet spray gun with a controlled arc region. 3,179,782, 4-20-65, Cl. 219-76.
- Matwiczow, John J., to Medical Sterile Products Co. Blade holder. 3,217,410, 11-16-65, Cl. 30-338.
- Matz, Allen S., to Teleflex Inc. Expansion compensated control system. 3,183,737, 5-18-65, Cl. 74-501.5.
- Matz, Allen S., Jr., and R. W. Hill, to Teleflex Inc. Remote control apparatus. 3,206,998, 9-21-65, Cl. 74-494.
- Matz, George C., to Swiss Knitting Co., Inc. Knit garment and fabric therefor. 3,224,231, 12-21-65, Cl. 66-171.
- Matz, Kenneth R., to Union Carbide Corp. Electrical brush and connector assembly. 3,173,047, 3-9-65, Cl. 310-249.
- Matz, Roy W.: See—
- Welch, Phillip C., and Matz. 3,224,807.
- Matz, Samuel A., E. G. Linke, and D. E. Mook, to The Borden Co. Method of preserving canned refrigerator doughs. 3,166,426, 1-19-65, Cl. 99-192.
- Matz, Samuel A., and D. E. Mook, to The Borden Co. Method for producing an unbaked dough product. 3,219,456, 11-23-65, Cl. 99-92.
- Matz, William H.: See—
- Young, John R. Trusler, Hiltgen, and Matz. 3,203,754.
- Matzenauer, James O., to North American Aviation, Inc. Reverse flow thrust chamber. 3,173,250, 3-16-65, Cl. 60-35.6.
- Matzner, Rudolph F., and E. Seidel. Material handling apparatus. 3,203,034, 8-31-65, Cl. 17-2.
- Matzner, Edwin A., to Monsanto Co. Sulfonamide compounds. 3,183,266, 5-11-65, Cl. 260-556.
- Matzner, Edwin A., to Monsanto Co. Novel chlorocyanurate compositions and processes of preparing same. 3,205,229, 9-7-65, Cl. 260-242.
- Matzner, Markus, to Union Carbide Corp. Process for preparing polycarbonates. 3,223,677, 12-14-65, Cl. 260-47.
- Matzuk, Alexander R.: See—
- Sarett, Lewis H., Matzuk, and Shen. 3,167,561.
- Mau, Gunter: See—
- Schwenk, Ulrich, Mau, and Schlafer. 3,214,248.
- Schwenk, Ulrich, Schlafer, Mau, Forderrether, and Hubenett. 3,208,820.
- Mau, William L., and E. A. Nagy, to The National Rolled Thread Die Co. Thread and other form rolling dies. 3,176,491, 4-6-65, Cl. 72-71.
- Mauborgne, Jacques: See—
- Maze, Herve, Mauborgne, and Reinbold. 3,192,152.
- Mauch, Hans A. Scanning and translating apparatus. 3,175,038, 3-23-65, Cl. 179-1.
- Mandlin, Wendell E., and J. L. Vanausdall, to Stewart-Warner Corp. Modulating input control for a gas appliance. 3,216,449, 11-9-65, Cl. 137-599.
- Maue, Marilyn J., to Pullman Inc. Radioactive gas disposal. 3,206,409, 9-14-65, Cl. 252-301.1.
- Mauer, Paul B.: See—
- Brown, Frederick C., and Mauer. 3,202,825.
- Carnall, Edward, Jr., and Mauer. 3,178,307.

Mauersberger, Heinrich, to VEB Nahwirmaschinenbau Malimo Karl-Marx-Stadt. Textile material and manufacture. Re. 25,749, 3-23-65, Cl. 66-84.

Mauersberger, Heinrich, to VEB Nahwirmaschinenbau Malimo Karl-Marx-Stadt. Plush fabric. 3,174,308, 3-23-65, Cl. 66-192.

Maugans, Terrance W., to General Motors Corp. Remote controlled push button tuner. 3,223,926, 12-14-65, Cl. 323-390.

Maul Brothers, Inc.: See—
Donnelly, Joseph W. 3,190,188.

Maul, John A., W. J. Brugge, and T. P. Satyshur, to Addressograph-Multigraph Corp. Platen roller mounting means in manually operable printing machines. 3,179,046, 4-20-65, Cl. 101-269.

Maul, Michael: See—
Wolf, Wildemar. 3,224,759.

Maul, William J., J. A. Oppel, and W. H. Rathbun, to General Electric Co. Electric protective equipment. 3,223,890, 12-14-65, Cl. 317-15.

Maurer, Albrecht, and E. Giese, to Ringspann Albrecht Maurer K.G. Freewheel clutch with tiltable sprags. 3,175,661, 3-30-65, Cl. 192-45.1.

Maurer, Dean W.: See—
Becker, Edward J., Koontz, and Maurer. 3,183,396.

Maurer, Edward C. Seat belt anchors. 3,185,246, 5-25-65, Cl. 180-82.

Maurer, Hans W.: See—
Goos, Hanno, Maurer, and Kurz. 3,219,483.

Maurer, Herman J.: See—
Pedersen, Carl O., and Maurer. 3,220,581.

Maurer, J. A., Inc.: See—
Boisey, Emil J., and Buon. 3,179,000.

Maurer, James L., R. E. Palmer, and V. D. Shah, to Hooker Chemical Corp. Method of and solution for improving conversion coated metallic surfaces. 3,222,226, 12-7-65, Cl. 148-6.16.

Maurer, John A., and E. W. Elliott, to Chicago Aerial Industries, Inc. Combination motor-transmission-brake. 3,190,414, 6-22-65, Cl. 192-4.

Maurer, Leon H., to Westworld Artists Productions Inc. Method and apparatus for producing animated cartoons. 3,190,955, 6-22-65, Cl. 178-6.

Maurer, Philip W., and J. Wishart, Jr., to General Motors Corp. Manual-automatic cruise control circuit. Re. 25,793, 6-8-65, Cl. 180-82.1.

Maurer, Pierre, to Radio Corp. of America. Tray and tray unload mechanism. 3,180,505, 4-27-65, Cl. 214-310.

Maurer, Raymond H., to The Tomkins-Johnson Co. Cushion control and surge relief. 3,196,753, 7-27-65, Cl. 91-26.

Maurer, Robert D., to Corning Glass Works. Traveling wave laser amplifier with glass filter. 3,214,702, 10-26-65, Cl. 330-4.3.

Maurer, Spencer B. Power operated rotary impact tool. 3,169,585, 2-16-65, Cl. 173-93.

Maurer, Theodor: See—
Kesseling, Fritz, and Maurer. 3,214,559.

Maurhoff, Gerhard: See—
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Maurhoff, Gerhard, to NSU Motorenwerke Aktiengesellschaft and Wankel G.m.b.H. Sealing structures. 3,176,909, 4-6-65, Cl. 230-145.

Mauric, Gerhard, to Electronic Specialty Co. Stop for linear actuators. 3,200,664, 8-17-65, Cl. 74-424.8.

Maurice, Jean, to Francaise du Ferodo, Societe Anonyme. Clutch device with multiple outputs. 3,185,274, 5-25-65, Cl. 192-48.

Maurice, Jean, and R. Le Brise, to Francaise du Ferodo, Societe Anonyme. Hydraulic clutch with cushion means. 3,213,988, 10-26-65, Cl. 192-86.

Maurice, Paul E.: See—
Kuhn, William J., and Maurice. 3,178,140.

Maurin, Joseph J., and M. B. Ziering, to Chicago Bridge & Iron Co. Hydrogen processing multiple layer pressure vessels. 3,224,619, 12-21-65, Cl. 220-3.

Mauritz, Michael. Bite indicator. 3,199,241, 8-10-65, Cl. 43-17.

Mauro, Jack A., to General Electric Co. Infrared flaw detector method and apparatus. 3,206,603, 9-14-65, Cl. 250-83.3.

Mauro, Richard G. Roller type die cutter. 3,188,900, 6-15-65, Cl. 82-663.

Maursey, Ethan K., to General Motors Corp. Operating handle assembly. 3,211,487, 10-12-65, Cl. 292-353.

Maursey, Ethan K., to General Motors Corp. Handle operating means. 3,222,951, 12-14-65, Cl. 74-543.

Maurus, John. Carpenter's wood framing tool. 3,189,341, 6-15-65, Cl. 269-153.

Maury, Alfred D., and C. M. Lyon, to Martin Automatic Fishing Reel Co., Inc. Clutch for fishing reel. 3,175,781, 3-30-65, Cl. 242-84.2.

Maury, Lucien G.: See—
Levering, Dewey R., and Maury. 3,182,086.

Maurzen Iron Works, Ltd.: See—
Fujii, Yuko. 3,198,177.

Maus, Louis: See—
Dood, Charles G., and Maus. 3,208,995.

Maus, Otrid G. H.: See—
Federn, Klaus, and Maus. 3,164,995.

Mausert, William A.: See—
Burke, Earl J., Bond and Mausert. 3,204,164.

Maushund, Thomas E. Submerged surface cleaning apparatus. 3,172,415, 3-9-65, Cl. 134-93.

Maust, Frederick K., deceased; H. Maust, and J. Grill, administrators. Staggered supporting arrangement for backed-up roller leveler. 3,201,965, 8-24-65, Cl. 72-163.

Maust, Hedwig: See—
Maust, Frederick K. 3,201,965.

Mauthe, Gustav: See—
Spahrkäs, Heinrich, and Mauthe. 3,174,817.

Mautner, Henry R., to General Aniline & Film Corp. Process for dyeing polypropylene fibers with acid dyestuffs in the presence of a water soluble thiocyanate. 3,201,189, 8-17-65, Cl. 8-55.

Mauvernay, Roland-Yves, to Centre Europeen de Recherches Mauvernay. 3,5-dimethoxy-4-allyloxy-benzamide compositions and method of use. 3,193,456, 7-6-65, Cl. 167-52.

Mauvernay, Roland-Yves, to Centre Europeen de Recherches Mauvernay. 3,5-dimethoxy-4-butylloxy-benzamide sedative action method. 3,203,856, 8-31-65, Cl. 167-52.

Maves, Wilbur W.: See—
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Mavis, James O.: See—
Cooper, Noel R., Flanagan, Jones, Mavis, and Wegner. 3,203,368.

Mavity, Julian M.: See—
Bielawski, Mitchell S., and Mavity. 3,201,486.

Mavleas, Michael G., and J. J. Desy, to Avien, Inc. Lithium hydride body heating device. 3,182,653, 5-11-65, Cl. 126-204.

Mavor & Coulson Ltd.: See—
Jerritt, George. 3,206,252.

Mavrikis, Sam H. Heated fishing rod. 3,164,921, 1-12-65, Cl. 43-24.

Mavrovic, Ivo: See—
Cook, Lucien H., and Mavrovic. 3,200,148.

Mavrovic, Ivo, to Chemical Construction Corp. Urea synthesis process. 3,172,911, 3-9-65, Cl. 260-555.

Mawbey, Lawrence: See—
Barker, Joseph, and Mawbey. 3,179,319.

Mawby, David H., to Crosfield Electronics Ltd. Image reproduction systems. 3,171,340, 3-2-65, Cl. 95-73.

Mawby, David H., to J. F. Crosfield, Ltd. Colour reproduction systems. 3,209,070, 9-28-65, Cl. 178-5.2.

Mawdsley, Donald M.: See—
Bean, Frank R., and Mawdsley. 3,173,103.

Mawhor, Lloyd R.: See—
Johnson, George T., and Mawhor. 3,170,296.

Mawson, Jack F., I. D. Rattee, and I. Seltzer, to Imperial Chemical Industries Ltd. Step-wise process for coloring and finishing cellulose materials wherein a cationic dyeing agent is employed with the resin finishing agent. 3,198,595, 8-3-65, Cl. 8-18.

Max, Lila J., to Cameo Curtains, Inc. Non-woolen textile that simulates woolen homespun fabric. 3,208,483, 9-28-65, Cl. 139-416.

Max-Planck-Gesellschaft zur Foerderung der Wissenschaften E.V.: See—
Behrisch, Rainer, Blauth, Melzner, and Meyer. 3,174,034.

Boldt, Günther. 3,218,514.

Fischer, Wilhelm A. 3,223,758.

Kilpping, Gustav. 3,166,915.

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Maxant Button and Supply Co.: See—
Decker, William H., Rieck, and Bennett. Re. 25,716.

Decker, William H., Rieck, and Bennett. Re. 25,738.

Maxey, Alexander R.: See—
Hibbard, Earl R., and Maxey. 3,180,929.

Maxey, Alexander R., to Ampex Corp. Plural motor drive control apparatus. 3,179,870, 4-20-65, Cl. 318-302.

Maxey, Alexander R., to Ampex Corp. Tape slack device. 3,185,400, 5-25-65, Cl. 242-55.12.

Maxey, Alexander R., to Ampex Corp. Tape transport. 3,189,289, 6-15-65, Cl. 242-55.11.

Maxey, Edwin M., to The General Tire & Rubber Co. Low torque bushing and composition. 3,171,699, 3-2-65, Cl. 808-26.

Maximoff, Paul A., S. J. Krol, and J. B. Sola, to Malco Mfg. Co., Inc. Contact loading mechanism for electrical socket machines. 3,180,014, 4-27-65, Cl. 29-203.

Maxon, Glenway, Jr.: See—
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Maxon, Glenway W.: See—
Retzlaff, William A., G. W. Maxon, and G. Maxon, Jr. 3,177,784.

Maxon, Glenway, Jr. Tilting dump truck with receptacle discharging means and directional chute. 3,198,495, 8-3-65, Cl. 259-171.

Maxon, Glenway, Jr. Load transfer means for contraction joints in concrete pavement. 3,217,616, 11-16-65, Cl. 94-17.

Maxon Industries, Inc.: See—
Lugash, Max J. 3,164,398.

Lugash, Max J. 3,164,399.

Maxon Premix Burner Co., Inc.: See—
Yeo, Robert H., and Wahlstrom. 3,178,161.

Maxon, William D.: See—
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Martin, Ernest N., and Maxson. 3,212,757.

Maxson Electronics Corp.: See—
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Karp, Jesse R., Swenson, Spira, and Gruenberg. 3,167,760.

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Maxson, Orwin G.: See—
Pflaster, Ralph E., Lee, and Maxson. 3,194,667.

Maxson, Orwin G., to Continental Oil Co. Apparatus for making plastic tubing. 3,169,272, 2-16-65, Cl. 18-14.

Maxted, Charles F., and R. E. V. Ramsing. Switch for indicating out-of-sight loads. 3,196,239, 7-20-65, Cl. 200-167.

Maxwell, Donald A., and W. M. Gearhart, to Eastman Kodak Co. Hydrocarbon oil sludging inhibitor composition. 3,202,491, 8-24-65, Cl. 44-63.

Maxwell, Hugh S., to General Electric Co. Automatic thickness regulator for strip rolling mills. 3,186,200, 6-1-65, Cl. 72-8.

Maxwell, James, and A. Rutherford, to Imperial Chemical Industries Ltd. Process for the production of moulding compositions. 3,164,563, 1-5-65, Cl. 260-37.

Maxwell, James A., and J. M. Heath; said Heath assor. to said Maxwell. Consumable key vending system. 3,204,741, 9-7-65, Cl. 194-4.

Maxwell, James T., to Telco Industries. Timing control units. 3,200,303, 8-10-65, Cl. 317-142.

Maxwell, James W. Jack structure for an earth boring machine. 3,190,371, 6-22-65, Cl. 173-141.

Maxwell, Murry W.: See—
King, Arthur S. 3,203,373.

Maxwell, Palmer M. Apparatus for imparting reciprocating motion to a structure. 3,163,989, 1-5-65, Cl. 60-54.5.

Maxwell, Palmer M. Apparatus for supporting a structure for motion in response to fluid pressure. 3,173,007, 3-9-65, Cl. 250-63.

Maxwell, Palmer M. High pressure medical injection direct from a fluid containing ampule. 3,198,385, 8-3-65, Cl. 222-41.

Maxwell, Richard C.: See—
Szabo, Charles, and Maxwell. 3,171,777.

Maxwell, Richard E., and E. C. Loomis, to Parke, Davis & Co. Fibrinolysin-deoxyribonuclease for enzymatic debromination. 3,208,908, 9-28-65, Cl. 167-73.

Maxwell, Richard F., Jr., to United States of America, Navy. Shaft angle transducer. 3,217,308, 11-9-65, Cl. 340-196.

Maxwell, Robert Corp.: See—
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Maxwell, Robert I.: See—
Russell, George F., Cleek, and Maxwell. 3,220,609.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Beverage dispensing machine. 3,169,669, 2-16-65, Cl. 222-70.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Hot water supply apparatus for a beverage dispensing machine. 3,169,225, 6-15-65, Cl. 222-64.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Coin operated vending machines. 3,193,072, 7-6-65, Cl. 194-13.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Hot beverage dispensing machines. 3,200,992, 8-17-65, Cl. 222-52.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Coin freed apparatus. 3,220,529, 11-30-65, Cl. 194-3.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Coin freed vending machines. 3,221,861, 12-7-65, Cl. 194-13.

Maxwell, Stewart A., to Fisher & Ludlow Ltd. Coin freed vending machines. 3,225,625, 12-28-65, Cl. 74-582.

May & Baker Ltd.: See—
Arnold, Richard B., Johnston, Wragg, and Maxwell. 3,221,054.

Ash, Anthony S. F., Creighton, and Wragg. 3,170,926.

Davis, Michael. 3,169,093.

John, David H. O., and Field. 3,178,284.

Lee, Glyn E., and Wragg. 3,183,243.

Slack, Ronald, Squires, and Woodbridge. 3,186,999.

Wragg, William R., Ash, and Creighton. 3,209,006.

May, Charles B., to United States of America, Navy. Strip-line board connector. 3,218,583, 11-16-65, Cl. 333-84.

May, Charles B., and R. D. Jeffery, to United States of America, Navy. Transmission line adapter for connecting coaxial and strip transmission lines at right angles. 3,201,722, 8-17-65, Cl. 333-84.

May, Charles W.: See—
Hasseld, Frank E., Jr., and May. 3,215,956.

May, Chester B.: See—
Van Schaik, Peter N., and May. 3,199,626.

May, Claude H., and K. H. Rhodes, to Walker Mfg. Co. Air compressor. 3,184,154, 5-18-65, Cl. 230-137.

May, Clifford H., to The Briggs Filtration Co. Water filter-separator. 3,170,873, 2-23-65, Cl. 210-307.

May, Clifford H., to The Briggs Filtration Co. Coalescing and filtering apparatus. 3,199,676, 8-10-65, Cl. 210-114.

May, Clifford H., and H. L. Murray, to The Briggs Filtration Co. Filter construction. 3,209,916, 10-5-65, Cl. 210-484.

May, Ernest M., and A. Fono, to Otto B. May Inc. Azo quinolinol dye composition. 3,222,350, 12-7-65, Cl. 260-155.

May, Ernest M., and A. Fono, to Otto B. May Inc. Monoazo 8-quinolinol dyestuffs. 3,222,351, 12-7-65, Cl. 260-155.

May, George, to Dufaylife Developments Ltd. Shock protective material. 3,225,509, 12-28-65, Cl. 53-29.

May, Griffith. Boundary layer control assembly. 3,213,819, 10-26-65, Cl. 114-67.

May, Harold F.: See—
Baldwin, John A., Jr., and May. 3,175,042.

May, Harold L., and W. W. Hay, to Air Reduction Co., Inc. Retractable column for medical service outlets. 3,213,877, 10-26-65, Cl. 137-355.16.

May, Harry A.: See—
Berry, Allan E., May, and Rice. 3,196,355.

May, Harry C., to Westinghouse Air Brake Co. Vacuum brake control equipment for multiple unit locomotives. 3,206,257, 9-14-65, Cl. 303-4.

May, Harry J.: See—
Coulton, Edward I., and May. 3,180,196.

May, Horace A.: See—
Huckins, Ralph A., and May. 3,185,510.

May, Howard J.: See—
Elliott, Robert A., and May. 3,173,262.

Price, William G., and May. 3,164,262.

Price, William G., and May. 3,164,264.

May, Irwin: See—
Kaufman, Myron N., and May. 3,197,540.

May, James P.: See—
Harvell, Robert, and May. 3,165,813.

May, John R.: See—
Silver, David H., and May. 3,208,216.

May, John W., and G. K. Benham, to Allis-Chalmers Mfg. Co. Stored energy operating mechanism for circuit breaker. 3,224,280, 12-21-65, Cl. 74-2.

May, Joseph J.: See—
Donchak, Richard M., and May. 3,169,906.

May, L. Chester: See—
Garth, Ernest D. G. 3,217,770.

Garth, Ernest D. G., and Young. 3,220,434.

May, Otto, to May-Pressenbau Ltd. Toggle lever press. 3,174,560, 3-23-65, Cl. 173-150.

May, Otto B., Inc.: See—
May, Ernest M., and Fono. 3,222,350.

May, Ernest M., and Fono. 3,222,351.

May, Patrick L., and W. K. Ralston, to International Harvester Co. Hay pelletizer. 3,213,783, 10-26-65, Cl. 100-100.

May-Pressenbau Ltd.: See—
Hecht, Helmut. 3,174,347.

May, Otto. 3,174,560.

May, Richard K.: See—
Dalton, Oran G., McDaniel, and May. 3,187,608.

May, Robert F., and D. L. Dart, to Chrysler Corp. Pulsed thrust velocity control of a projectile. 3,184,182, 5-18-65, Cl. 244-14.

May, Russell D., to Black, Sivalls & Bryson, Inc. System for the sonic treatment of emulsions and for resolving the same into their constituent parts. 3,200,567, 8-17-65, Cl. 55-175.

May, Russell P., 1/2 to W. G. H. Finch. Sterile drinking container. 3,204,805, 9-7-65, Cl. 220-24.

May, Walter M., to Mack Trucks, Inc. Axle carrier unit. 3,175,417, 3-30-65, Cl. 74-412.

May, Walter M., to Mack Trucks, Inc. Engine crankcase. 3,189,126, 6-15-65, Cl. 184-6.

May, Walter M., to Mack Trucks, Inc. Pre-loaded hinge for vehicle fenders or the like. 3,217,354, 11-16-65, Cl. 16-128.

May, Walter M., D. W. Glasenapp, and H. J. Warmkessel, to Mack Trucks, Inc. Mounting device for tilting integral hood and fender assembly. 3,174,575, 3-23-65, Cl. 180-69.

May, Walter M., D. W. Glasenapp, and H. J. Warmkessel, to Mack Trucks, Inc. Fuel tank and rear cab support. 3,177,969, 4-13-65, Cl. 180-89.

May, Walter M., D. W. Glasenapp, and H. J. Warmkessel, to Mack Trucks, Inc. Motor vehicle. 3,179,201, 4-20-65, Cl. 180-89.

Maybelline Co.: See—
Aston, Bruno D. 3,209,730.

Mayberry, Billy T.: See—
Rice, Bartlett, and Mayberry. 3,197,880.

Maycen, Othmar F. Air distributing unit. 3,173,478, 3-16-65, Cl. 165-121.

Maychark, Valentine J. Quick acting pipe coupling. 3,214,202, 10-26-65, Cl. 285-364.

Maycock, Russel L.: See—
Fourie, Robert W., Maycock, and Rlesser. 3,209,037.

Mayer, Akiva D.: See—
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- McBride, Maurice G., and D. G. Wildish, to Sangamo Weston Ltd. Temperature measuring systems. 3,218,859, 11-23-65, Cl. 73-341.
- McBride, Oscar S., and G. V. Runge, said McBride assor. to Twinwood, Inc. Catch basin excavating machine. 3,199,656, 8-10-65, Cl. 198-88.
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- McBride, William R., to Design Products Corp. Transfer apparatus. 3,191,746, 6-29-65, Cl. 198-20.
- McBrien, Edward F., to The Ohio Crankshaft Co. Resistance heating apparatus. 3,182,167, 5-4-65, Cl. 219-10.61.
- McBrien, Edward F., to The Ohio Crankshaft Co. Variable inductance device for control of power in an induction heating apparatus. 3,209,114, 9-28-65, Cl. 219-10.75.
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- McBroom, Elmer W. Furniture guard. 3,191,811, 6-29-65, Cl. 222-192.
- McBroom, Frederick and H., to McBroom Electric Co., Inc. Apparatus for pulling and pressing bearings and the like. 3,217,395, 11-16-65, Cl. 29-252.
- McBroom, Hilton: See—
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- McCabe, Donald L. Therapeutic or walking exercising vehicle. 3,180,678, 4-27-65, Cl. 297-5.
- McCabe, Francis J., to Air Balance, Inc. Damper construction. 3,204,548, 9-7-65, Cl. 98-119.
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- McCafferty, Edward A., to The National Marking Machine Co. Certain 2-(2'-hydroxy-5-acylamidophenyl)-benzoxazoles and benzothiazoles. 3,164,603, 1-5-65, Cl. 260-304.
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- McCain, William B., to Chicago Machinery Laboratory, Inc. Book trimming machine. 3,167,987, 2-2-65, Cl. 83-268.
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- McCain, James O., to Hughes Aircraft Co. P-N junction formation in III-V semiconductor compounds. 3,211,589, 10-12-65, Cl. 148-1.5.
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- McCamy, Isaac W., J. L. Graham, and M. R. Siegel, to Tennessee Valley Authority. Method for the production of granular high-nitrogen and mixed fertilizers. 3,165,395, 1-12-65, Cl. 71-34.
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- McCann, Robert E., to Control Data Corp. Pulse resynchronizing system for converting asynchronous, random length data signal into data signal synchronous with clock signal. 3,225,301, 12-21-65, Cl. 328-63.
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- McCann, Wilfred, to Beckman Instruments, Inc. Variable resistance bridge. 3,222,629, 12-7-65, Cl. 338-162.
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- McCarriek, Henry J., to Texas Instruments Inc. Motion translating and amplifying devices. 3,213,244, 10-19-65, Cl. 200-137.
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- McCarthy, Catherine S., to Eastman Kodak Co. Process for improving color developability of reversal photograph films. 3,165,407, 1-12-65, Cl. 96-22.
- McCarthy, Charles E., and A. W. Scannell, to Leath, McCarthy & Maynard, Inc. Hosiery package and method and means for forming same. 3,193,137, 7-6-65, Cl. 221-48.
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- McCarthy, John J., to Norco Inc. Quick-release fastening and locking device. 3,184,816, 5-25-65, Cl. 24-211.
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- McCarthy, Lourdes V., W. A. Blermann, R. J. Duncan, and A. L. Teichert, to Controls Co. of America. Metering valve with viscosity compensating adjustment. 3,221,767, 12-7-65, Cl. 137-577.
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- McCauley, George W. Structural surfaces. 3,186,522, 6-1-65, Cl. 189-1.
- McCauley, Herbert J. Seat belt buckle. 3,197,832, 8-3-65, Cl. 24-78.
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- McClellan, Herbert L., to The National Machinery Co. Shaped wire rolling. 3,178,924, 4-20-65, Cl. 72-235.
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- McCloskey, Allen L., H. M. Manasevit, and R. J. Brotherton, to United States Borax & Chemical Corp. Method for preparing diboron tetrafluoride. 3,180,708, 4-27-65, Cl. 23-205.
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- McCloud, George R., to McGraw-Edison Co. Drop out fuse construction having a fuse tube which is resiliently mounted in an annular support member. 3,177,317, 4-6-65, Cl. 200-114.
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- McCloud, James R., to I-T-E Circuit Breaker Co. Operating mechanism for circuit breakers. 3,187,593, 6-8-65, Cl. 74-106.
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- McClure, Arthur W., to The Trane Co. Refrigerating apparatus including means for cooling compression motor. 3,218,825, 11-23-65, Cl. 62-505.
- McClure, Frank T., to United States of America, Navy. Method of navigation. 3,172,108, 3-2-65, Cl. 343-112.
- McClure, Glenn T., to Westinghouse Air Brake Co. Angle cock. 3,165,293, 1-12-65, Cl. 251-252.
- McClure, Glenn T., to Westinghouse Air Brake Co. Fluid pressure brake control apparatus. 3,180,695, 4-27-65, Cl. 303-86.
- McClure, Glenn T., to Westinghouse Air Brake Co. Rotary compressor. 3,193,191, 7-6-65, Cl. 230-158.
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- McClure, John L., to General Electric Co. Arc-suppressing multiposition electric switch. 3,165,598, 1-12-65, Cl. 200-45.
- McClure, Mark. Hopper and trough feeder with adjustable supply means. 3,225,743, 12-28-65, Cl. 119-53.
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- McClure, Robert M., to Texas Instruments Inc. System for generating facsimiles of radar signals. 3,165,024, 1-12-65, Cl. 38-24.
- McClure, Stanley R. Mechanical off-bearing mechanism. 3,165,129, 1-12-65, Cl. 143-157.
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- McCollough, John L., and R. E. Ferguson. Transplanter container. 3,187,463, 6-8-65, Cl. 47-34.
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- McCollum, Burton, deceased; P. R. Rowe, and Bank of the Southwest National Association, executors. Method of seismic exploration. 3,182,743, 5-11-65, Cl. 181-5.
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- McComb, Bruce W., and K. H. Extruder head for food stuff. 3,190,210, 6-22-65, Cl. 99-238.
- McComb, Kenneth H.: See—
McComb, Bruce W., and K. H. 3,190,210.
- McCombs, Howard L., Jr., to The Bendix Corp. Motion transmitting system. 3,171,330, 3-2-65, Cl. 91-385.
- McCombs, Howard L., Jr., to The Bendix Corp. Fuel control for combustion engines. 3,173,468, 3-16-65, Cl. 158-36.4.
- McCombs, Howard L., Jr., to The Bendix Corp. Fuel control for combustion engine. 3,195,308, 7-20-65, Cl. 60-39.28.
- McConaha, Thomas O. Bearing removal and installation device. 3,174,218, 3-23-65, Cl. 29-256.
- McConeghy, Charles J. Dummy shotgun shell blank. 3,200,746, 8-17-65, Cl. 102-39.
- McConeghy, George Jr., to International Harvester Co. Material wagon. 3,214,050, 10-26-65, Cl. 214-519.
- McConeghy, George, Jr., and H. O. Halstengard, to International Harvester Co. Self-unloading wagon. 3,214,051, 10-26-65, Cl. 214-522.
- McConkie, Howard S. Method of testing for tire leaks. 3,175,390, 3-30-65, Cl. 73-49.
- McConnaughey, William E., to United States of America, Navy. Carbon dioxide absorption manifold. 3,178,269, 4-13-65, Cl. 23-284.
- McConnell, Albert L., to Scott Paper Co. Composite plastic container. 3,199,757, 8-10-65, Cl. 229-1.5.
- McConnell, Albert L., and W. R. Adams, to Scott Paper Co. Composite fabric and method of manufacture thereof. 3,215,584, 11-2-65, Cl. 161-64.
- McConnell, Albert L., and E. M. Kasinkas, to Scott Paper Co. Embossed plastic bag. 3,224,574, 12-21-65, Cl. 206-56.
- McConnell, George, to Imperial Chemical Industries Ltd. Polymerisation inhibiting process in making methacrylic compounds. 3,210,419, 10-5-65, Cl. 260-561.
- McConnell, Kennedy, to Interlake Steel Corp. Core liner. 3,203,453, 8-31-65, Cl. 140-92.1.
- McConnell, Richard L.: See—
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- McConnell, Wayne V., and W. H. Moore, to Eastman Kodak Co. Process for preparing esters of 2,2,4,4-tetramethyl-tetrahydro-3-furanol. 3,184,480, 5-18-65, Cl. 260-347.4.
- McCook, Mildred T. Babies' snap-back toy harness and exerciser. 3,184,883, 5-25-65, Cl. 46-32.

- McCord, Andrew T., to The Carborundum Co. Fuel oil composition containing corrosion inhibiting additive. 3,205,053, 9-7-65, Cl. 44-66.
- McCord, Carson W., to The Jeffrey Gallon Mfg. Co. Adjustable toothed wheel. 3,216,269, 11-9-65, Cl. 74-243.
- McCord, Eugene B.: See—
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- Maerov, Sidney B., and McCord. 3,199,281.
- McCord, George P., to United States Rubber Co. Molded article, especially a tubeless tire valve stem assembly. 3,191,655, 6-29-65, Cl. 152-427.
- McCord, Robert C., and W. T. Maginnis, to Pro-phy-lactic Brush Co. Toothbrush package advertising tab combination. 3,220,543, 11-30-65, Cl. 206-45.34.
- McCord, Wilfred M., Jr., to Vermont American Corp. Abrasive article backed with stretchable-compressible material. 3,214,253, 10-26-65, Cl. 51-297.
- McCorkle, Carl. Metal siding structure. 3,188,774, 6-15-65, Cl. 50-221.
- McCorkle, William C., Jr., and R. G. Conard, to United States of America, Army. Drag-compensated missile. 3,205,820, 9-14-65, Cl. 102-49.
- McCorkle, Willard H., and H. S. Cern, to United States of America, Atomic Energy Commission. Nuclear reactor core and fuel assembly. 3,165,448, 1-12-65, Cl. 176-50.
- McCormack, Austin F., Jr. Steam heating apparatus. 3,211,376, 10-12-65, Cl. 237-68.
- McCormack, Peter A.: See—
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- McCormack, Walter R., to Western Electric Co., Inc. Substrates having solderable gold films formed thereon, and methods of making the same. 3,207,838, 9-21-65, Cl. 174-68.5.
- McCormick, Francis A., and R. L. Newton, to Owens-Illinois Glass Co. Slitter machine with automatic edge control. 3,176,567, 4-6-65, Cl. 83-364.
- McCormick, George C.: See—
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- McCormick, Hamilton L., to General Motors Corp. Core making apparatus. 3,192,578, 7-6-65, Cl. 22-10.
- McCormick, James B. Magnetic mounting device for a microtome. 3,190,164, 6-22-65, Cl. 83-411.
- McCormick, James B., to Ames Atomium, Inc. Anti-roll device. 3,191,476, 6-29-65, Cl. 83-169.
- McCormick, James B., to Ames Atomium, Inc. Stacked Petri dishes. 3,198,713, 8-3-65, Cl. 195-139.
- McCormick, James B., to Ames Lab-Tek, Inc. Specimen freezing device for use with a microtome. 3,218,896, 11-23-65, Cl. 83-15.
- McCormick, James B., and H. Cousins, to Ames Atomium, Inc. Microtome specimen-freezing apparatus. 3,204,424, 9-7-65, Cl. 62-320.
- McCormick, James B., and H. Cousins, to Ames Lab-Tek, Inc. Microtome having means to incrementally feed the cutting blade toward the specimen carrier. 3,212,379, 10-19-65, Cl. 83-167.
- McCormick, Jerry R. D., and J. Reichenthal, to American Cyanamid Co. Derivatives of 1,3,11,12-tetrahydroxynaphthacene and 1,3,6,11-tetrahydroxynaphthacene-5,12-quinone. 3,201,424, 8-17-65, Cl. 260-351.
- McCormick, Jerry R. D., N. O. Sjolander, and S. J. Johnson, to American Cyanamid Co. Biological transformation of 1,3,10,11,12-penta-hydroxynaphthacene-2-carboxamides to tetracycline antibiotics. 3,226,305, 12-28-65, Cl. 195-80.
- McCormick, Jerry R. D., R. Winterbottom, and P. Bitha, to American Cyanamid Co. Novel 7,11A-dihalotetracyclines and the process of preparing them. 3,226,435, 12-28-65, Cl. 260-559.
- McCormick, John E., to Southwestern Porcelain Steel Corp. Wall-panel structure. 3,205,632, 9-14-65, Cl. 52-588.
- McCormick, Martin M.: See—
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- McCormick, Martin M., and J. A. Lundquist, to Sinclair Research, Inc. Extreme pressure complex grease. 3,219,581, 11-23-65, Cl. 252-33.6.
- McCormick, Maurice D. Rotary vane thermostat. 3,184,164, 5-18-65, Cl. 236-34.
- McCormick, Maurice D., to The Dole Valve Co. Combination vent cap and valve for automobile radiators. 3,203,445, 8-31-65, Cl. 137-493.4.
- McCormick, Maurice D. Adjustably related golf club shaft and head including two striking faces and shaft position indicator means. 3,204,962, 9-7-65, Cl. 273-80.1.
- McCormick, Maurice D., to The Dole Valve Co. Pressure cap for sealed cooling system. 3,216,608, 11-9-65, Cl. 220-44.
- McCormick, Rayna H. Bowling ball display rack. 3,198,338, 8-3-65, Cl. 211-14.
- McCormick, Robert W., to Union Bag-Camp Paper Corp. Collapsible tray. 3,167,211, 1-26-65, Cl. 220-110.
- McCornack, Clark W. Convertible-top window structure. 3,191,989, 6-29-65, Cl. 296-145.
- McCorquodale, Wilmer E., Jr., to Sun Oil Co. Method of preparing a slow release urea fertilizer. 3,192,033, 6-29-65, Cl. 71-28.
- McCowan, David A. Knock-down stand. 3,180,288, 4-27-65, Cl. 108-101.
- McCowen, Lionel D.: See—
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- McCown, William E.: See—
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- McCoy, Alva L., to Young Spring & Wire Corp. Hydraulic servo control mechanism. 3,174,403, 3-23-65, Cl. 90-13.5.
- McCoy, Bernard J., to Tamar Electronics Industries Inc. Torque test device. 3,200,633, 8-17-65, Cl. 73-9.
- McCoy, Charles E., Jr., to The Dow Chemical Co. Alkylphenoxycarboxylic acids. 3,213,133, 10-19-65, Cl. 260-520.
- McCoy, Frederic C., and E. C. Knowles, to Texaco Inc. Plant composition. 3,171,779, 3-2-65, Cl. 167-42.
- McCoy, Frederic C., and E. C. Knowles, to Texaco Inc. Hydrazine-hydrocarbon dispersion composition. 3,212,866, 10-19-65, Cl. 44-51.
- McCoy, James R., to Harvest Queen Mill & Elevator Co. Valve system for sequential flow from multizone producing wells. 3,195,644, 7-20-65, Cl. 166-147.
- McCoy, James R., and J. P. Reeves, to Harvest Queen Mill & Elevator Co. Oil well pump. 3,177,943, 4-13-65, Cl. 166-68.
- McCoy, John H., to National Rolling Mills Co. Suspended ceiling grid structure. 3,169,614, 2-16-65, Cl. 189-82.
- McCoy, Laverne D., to United Aircraft Corp. Clamping device. 3,211,477, 10-12-65, Cl. 285-286.
- McCoy, Marlene. Vector and trigonometric static-balance computer. 3,178,108, 4-13-65, Cl. 235-61.
- McCoy, Oakley H., to Bunker-Ramo Corp. Trigger circuit. 3,214,644, 10-26-65, Cl. 317-148.5.
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- McCoy, Rawley D., to Dynamics Corp. of America. Variable bandwidth tracking system. 3,206,753, 9-14-65, Cl. 343-117.
- McCracken, Charles E. Method and apparatus for record keeping. 3,215,451, 11-2-65, Cl. 281-44.
- McCracken, James W. Rigid crating system for sheet material and the like. 3,206,050, 9-14-65, Cl. 214-152.
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- McCracken, John H., J. G. D. Schulz, and A. C. Whitaker, to Gulf Research & Development Co. Process for purifying benzophenone 4,4'-dicarboxylic acid. 3,197,499, 7-27-65, Cl. 260-475.
- McCracken, John H., J. G. D. Schulz, and A. C. Whitaker, to Gulf Research & Development Co. Process for hydrogenating diarylketone carboxylic acids. 3,203,982, 8-31-65, Cl. 260-515.
- McCracken, Philip G., to The Dow Chemical Co. Method for making aminonitriles. 3,174,992, 3-23-65, Cl. 260-465.6.
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- McCreary, Harold J., to Automatic Electric Laboratories, Inc. Mosaic sheet for analysis and synthesis of memory meshes. 3,178,691, 4-13-65, Cl. 340-174.
- McCreary, Harold J., to Bunker-Ramo Corp. Electromagnetic lead head. 3,214,746, 10-26-65, Cl. 340-174.1.
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- McCreary, Robert B., to The Marmac Co. Differential hydraulic cylinder mechanism. 3,181,436, 5-4-65, Cl. 92-117.
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- McCroly, John F., 2 1/2% to V. Allen, and 5% to D. J. and B. M. Ward. Automatic tire tread gauge. 3,183,481, 5-11-65, Cl. 340-52.
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McDonough, Robert D. Prefabricated movable wall section. 3,174,593, 3-23-65, Cl. 189-34.

McDonough, John A., to General Motors Corp. Zero backlash gearing. 3,213,704, 10-26-65, Cl. 74-449.

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McElroy, William D., and E. H. White. Hydroxybenzothiazoles and methods of preparing same. 3,164,613, 1-5-65, Cl. 260-243.

McElvenny, Robert T., deceased; Mercantile National Bank of Chicago, executor. Method and apparatus for measuring temperatures. 3,217,544, 11-16-65, Cl. 73-362.

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De Witt, John R., Mackay, and Reilly. 3,192,545.

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Ma, James J. L., Wright, and McEuen. 3,194,643.

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- McEuen, Robert B., to The Pure Oil Co. Apparatus and method for separating polarizable from non-polarizable particles. 3,197,894, 7-27-65, Cl. 204-186.
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- McEwin, Frederick L. Liquid lubricant feeding system for tree shaking apparatus. 3,178,875, 4-20-65, Cl. 56-328.
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- McFadden, Bruce R., R. C. Jarrett, and B. E. Shlesinger, Jr., to AMP Inc. Plug connector. 3,206,718, 9-14-65, Cl. 339-217.
- McFadden, Charles A., to Bickley Furnaces, Inc. Furnace with burner means. 3,174,735, 3-23-65, Cl. 263-43.
- McFadden, Russell T., R. R. Langner, and L. L. Wade, to The Dow Chemical Co. Biotically-active mixed phosphorothioate ester-containing and mixed phosphoramidate ester-containing polymeric materials. 3,212,967, 10-19-65, Cl. 167-42.
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- Driesch, Theodore W., and McFarland. 3,205,324.
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- McFarland, William N.: See—
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- McFarlane, Samuel, to Sun Chemical Corp. Electrostatic printing method. 3,220,833, 11-30-65, Cl. 96-1.
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- McFeaters, Harry L., R. C. Layman, A. O. Dunn, R. P. Krause, and J. Grant, to Pennsylvania Engineering Corp. Ladle construction. 3,169,286, 2-16-65, Cl. 22-81.
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- McFee, Richard. Superconducting electrical devices. 3,173,079, 2-9-65, Cl. 323-44.
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- McFerrer, Edgar L., to Giddings & Lewis Machine Tool Co. Facing head attachment. 3,180,187, 4-27-65, Cl. 82-1.
- McFerrer, Edgar L., W. L. McCann, and G. H. Jones, to Giddings & Lewis Machine Tool Co. Machine tool. 3,188,891, 6-15-65, Cl. 77-3.
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- McGee, Sherwood W., and J. I. Fisher, to Huyck Corp. Fiber entering. 3,178,280, 4-13-65, Cl. 75-200.
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- McGinty, Otto W. Fluid level indicator for radiator. 3,179,620, 4-20-65, Cl. 340-59.
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- McGrath, Earle J., and C. H. Stevenson, said McGrath assor. to FMC Corp. Apparatus for handling cases. 3,187,877, 6-8-65, Cl. 198-34.
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- McNaney, Joseph T., to General Dynamics Corp. Horizontal color stripe tube with interlacing scan and beam velocity modulation. 3,210,585, 10-5-65, Cl. 313-92.
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- McNaney, Joseph T. Image amplifying apparatus. 3,215,846, 11-2-65, Cl. 250-213.
- McNaney, Joseph T. Infrared responsive recorder with layered material. 3,222,519, 12-7-65, Cl. 250-65.
- McNaney, Joseph T. Infrared radiation image converter. 3,222,520, 12-7-65, Cl. 250-83.3.
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- McNay, Ralph E., and W. R. Peterson, to Ashland Oil & Refining Co. Method of sizing cellulose fibers with resinous material from the plant Grindelia and product thereof. 3,186,901, 6-1-65, Cl. 162-180.
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- McNeil, Dalph C. Flash separator. 3,200,568, 8-17-65, Cl. 55-191.
- McNeil, Gordon I. Method for making composite sections for use as crawler tracks and the like. 3,223,765, 12-14-65, Cl. 264-229.
- McNeill Laboratories, Inc.: See—
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- McNeill, William, and T. J. Mackus, to United States of America, Army. Apparatus for electrophoretic deposition of lamellar fluorophlogopite mica sheets. 3,211,639, 10-12-65, Cl. 204-299.
- McNells, Donald E. Letter-envelope. 3,217,972, 11-16-65, Cl. 229-92.1.
- McNells, Edward J., to Sun Oil Co. Preparation of phenyl O-halobenzoates and conversion thereof to phenol. 3,171,854, 3-2-65, Cl. 260-478.
- McNells, Edward J., to Sun Oil Co. Preparation of dihalo-xanthenes. 3,178,450, 4-13-65, Cl. 260-335.
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- McNells, Edward J., to Sun Oil Co. Preparation of aromatic phenols. 3,220,979, 11-30-65, Cl. 260-47.
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- McNelly, Henry W., Sr., and J. E. Campion, to American Associated Companies. Mop head assembly. 3,216,039, 11-9-65, Cl. 15-229.
- McNelly, George W., to Inland Steel Co. Molten metal level indicator. 3,184,970, 5-25-65, Cl. 73-304.
- McNelly, George W., to Inland Steel Co. Process for producing multi-layer metallic material. 3,224,088, 12-21-65, Cl. 29-529.
- McNemar, Walter L., to F. D. Kees Mfg. Co. Flush top recessed hinge. 3,197,805, 8-3-65, Cl. 16-128.
- McNenny, Harold F. Fluid spring and shock absorber. 3,226,103, 12-28-65, Cl. 267-64.
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- McNulty, John V., L. I. Knudson, and E. L. Mooney, to General Laboratory Associates, Inc. Method of making a semiconductor gap for an initiator. 3,196,041, 7-20-65, Cl. 117-201.
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- Mellen, William F. Two-way plow. 3,168,149, 2-2-65, Cl. 172-226.
- Mellen, William F. Trailing implement with swing joint. 3,181,890, 5-4-65, Cl. 250-447.
- Mellen, William F. Soil tillage apparatus. 3,224,392, 12-21-65, Cl. 111-52.
- Mellentini, Robert W.: See—
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- Mellet, Jesse B., to Stewart-Warner Corp. Multi-fuel heater control valve. 3,168,599, 2-9-65, Cl. 137-341.
- Mellies, Norman J., to Dresser Industries, Inc. System for producing relatively high direct current voltage pulses from low voltage D.C. source. 3,222,537, 12-7-65, Cl. 307-88.5.
- Mellinger, Arthur G., to Arthur G. Mellinger, Inc. Hydraulic power unit. 3,213,759, 10-26-65, Cl. 91-126.
- Mellinger, Arthur G., Inc.: See—
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- Mellinger, John C., to The Maytag Co. Programming control device. 3,215,867, 11-2-65, Cl. 307-141.
- Mellinger, John C., to The Maytag Co. Moisture sensor control device for a laundry drier. 3,221,417, 12-7-65, Cl. 34-45.
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- Di Domenico, Joseph, and Mellison. 3,199,724.
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- Melmoth, Robert B., to Ford Motor Co. Method for upsetting elongated articles. 3,198,926, 8-3-65, Cl. 219-7.5.
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- Melnick, Daniel, to Corn Products Co. Peanut spread and method of manufacture. 3,216,830, 11-9-65, Cl. 99-128.
- Melnick, Robert J.: See—
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- Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Spacer for insertion between adjacent convolutions of a coil spring. 3,198,508, 8-3-65, Cl. 267-61.
- Melton, James O., and I. M. Carpenter, to The Geograph Co. Operations recorder. 3,216,019, 11-2-65, Cl. 346-30.
- Melton, Thomas M., to Socony Mobil Oil Co., Inc. Thio-phosphonous acid ester insecticides. 3,205,252, 9-7-65, Cl. 260-461.
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- Meltzer, Jack. Conductive shoe and method of repairing it, and repair kit therefor. 3,196,314, 7-20-65, Cl. 317-2.
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- Melvin, Charles A., R. Godbarsen, and W. G. Waggoner, to General Electric Co. Illuminated push-button system. 3,213,269, 10-19-65, Cl. 240-1.
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- Melvin, Morton A. Oil-fired portable angle cremator. 3,177,827, 4-13-65, Cl. 110-8.
- Melvin, Richard H. Material handling apparatus. 3,209,922, 10-5-65, Cl. 214-1.
- Melzer, Franklin. Load sensing and indicating means. 3,216,303, 11-9-65, Cl. 85-62.
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- Membrino, Hercules. Bag holding and dispensing means. 3,190,490, 6-22-65, Cl. 221-26.
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- Menegoz, Charles D. R., Perieres, and J. Mercier, to Pechiney Compagnie de produits Chimiques et Electrometallurgiques. Electric arc furnaces and method. 3,180,916, 4-27-65, Cl. 13-9.
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- Menesson, André L., to Societe Industrielle de Brevets et d'Etudes (S.I.B.E.). Carburetors comprising an auxiliary device for cold starting. 3,179,388, 4-20-65, Cl. 261-39.
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- Menesson, André L., to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Pressure carburetors. 3,198,498, 8-3-65, Cl. 261-144.
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- Metzrahn, Heinrich, to Henschel Flugzeug-Werke A.G. Device for exchanging helicopter engines. 3,211,299, 10-12-65, Cl. 214-1.
- Meuer, Donal A., to The National Cash Register Co. Semi-permanent information-store devices. 3,184,720, 5-18-65, Cl. 340-174.
- Meuer, William V. Paper sack holder. 3,186,667, 6-1-65, Cl. 248-97.
- Meullen, Louis P. H.: See—
- Garnier, Henri L., Rubet, Desroches, Marchal, and Meullen. 3,169,977.
- Meullen, Norman F.: See—
- Norman, Robert I., and Meullen. 3,223,418.
- Meuly, Walter C., and A. Seldner, to Rhodia, Inc. Method for abating stream pollution. 3,226,320, 12-28-65, Cl. 210-63.
- Meunier, Auguste L.: See—
- Giro, Etienne Y. J. M., and Meunier. 3,190,584.
- Oestrich, Hermann, Michard, Meunier, and Minos. 3,174,411.
- Meunier, Gabriel, to Degremont Canada Ltee. Atomizer of gas in liquid. 3,214,151, 10-26-65, Cl. 261-64.
- Meunier, Robert, to United States of America, Army. Bolt stop for use with tandem-type magazines. 3,177,601, 4-13-65, Cl. 42-18.
- Meunier, Robert, to United States of America, Army. Trigger guard safety for dual trigger firearms. 3,195,259, 7-20-65, Cl. 42-70.
- Meunier, Roland J. Liquid dispensing devices. 3,177,502, 4-13-65, Cl. 4-228.
- Meurer, Heinz H., to Loewe Opta A.G. Transistor mixer and oscillator circuit. 3,206,682, 9-14-65, Cl. 325-438.
- Meurer, Siegfried: See—
- Fischer, Hans, Meurer, and Liebel. 3,166,053.
- Muhlberg, Erhard, and Meurer. 3,167,913.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A.G. Method and apparatus for forming combustion gas mixtures for rotary piston engines. 3,200,795, 8-17-65, Cl. 123-8.
- Meusel, Jerome A., to The Baltimore Spice Co. Method of processing meat. 3,186,853, 6-1-65, Cl. 99-159.
- Mewhinney, Albert B.: See—
- Greene, Paul B., Levally, Mewhinney, and Nevlin. 3,210,020.
- Jackson, Robert E., and Mewhinney. 3,210,498.
- Mews, Gunter. Multiple reel tape dispenser with receptacle. 3,183,752, 5-18-65, Cl. 83-167.
- Mewse, Charles, to Avdel Ltd. Ball detent coupling device with ring shaped friction means. 3,170,362, 2-23-65, Cl. 85-5.
- Mexner, Wilhelm: See—
- Lange, Karl H. 3,218,946.
- Meybeck, Jean, R. Kircher, and J. Breiss (nee Le Clerc), to Societe d'Etudes Chimiques Pour l'Industrie et l'Agriculture. Alkaline earth bromides. 3,178,262, 4-13-65, Cl. 23-85.
- Meyer, Albert, to D. H. Baldwin Co. Volume control for electronic organs. 3,193,609, 7-6-65, Cl. 84-127.
- Meyer, Allan W.: See—
- Crafts, Cecil A., Goodwin, and Meyer. 3,218,548.
- Meyer, Andre J., and E. A. Mossman, to Martin-Marletta Corp. Ducted rocket engine. 3,176,464, 4-6-65, Cl. 60-35.55.
- Meyer, Arnfried. Apparatus for treating textile goods. 3,177,592, 4-13-65, Cl. 334-82.
- Meyer, August, and W. Steger, to Siemens-Schuckertwerke Aktiengesellschaft. Method for dividing semiconductor plates into smaller bodies. 3,206,088, 9-14-65, Cl. 225-2.
- Meyer, Barthold F., to General Motors Corp. Cam centered electric switch with moisture-proof sealing means. 3,222,467, 12-7-65, Cl. 200-16.
- Meyer, Burtis W. H. J. Geer, to General Electric Co. Information storage circuit. 3,178,587, 4-13-65, Cl. 307-88.5.
- Meyer, Burton C.: See—
- Glass, Marvin I., and Meyer. 3,172,665.
- Glass, Marvin I., and Meyer. 3,200,538.
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- McFarland, Norman T., and Meyer. 3,201,129.
- Meyer, Burton C., and H. Stan, to Marvin I. Glass. Surprise chance device. 3,169,770, 2-18-65, Cl. 273-138.
- Meyer, Carl L., to General Motors Corp. Photosensitive rear warning signal. 3,192,437, 6-29-65, Cl. 315-77.
- Meyer, Christoph P. Air deflector. 3,225,679, 12-28-65, Cl. 98-103.
- Meyer, Curtis E., to The Upjohn Co. Stable vitamin composition. 3,168,440, 2-2-65, Cl. 167-81.
- Meyer, David: See—
- Kaluzny, John C., Meyer, and McPherson. 3,207,516.
- Meyer, Delbert H., and P. J. Mahaleo, to Standard Oil Co. Direct esterification. 3,185,668, 5-25-65, Cl. 260-75.
- Meyer, Earl A.: See—
- Bouschat, Kenneth, and Meyer. 3,214,967.
- Meyer, Earl A., and J. B. Spencer, to United States of America, Army. Device for measuring the velocity of a projectile using spaced frangible switches. 3,222,596, 12-7-65, Cl. 324-70.
- Meyer, Edgar D. Pipe smoker's kit. 3,200,822, 8-17-65, Cl. 134-243.
- Meyer, Edward S. Hand tool for facilitating the insertion of a seal packing material into a narrow groove formed to receive said packing material. 3,192,617, 7-6-65, Cl. 29-278.
- Meyer, Engelbert A., to Chicago United Products Co., Inc. Method of finishing automobile panel and securing trim thereto. 3,188,730, 6-15-65, Cl. 29-430.
- Meyer, Frances S.: See—
- Meyer, Peter R., and F. S. 3,212,647.
- Meyer, Frank E., to General Dynamics Corp. Printed wiring layout process. 3,171,741, 3-2-65, Cl. 96-27.
- Meyer, Frank J., to Kimberly-Clark Corp. Expansion size envelope. 3,167,242, 1-26-65, Cl. 229-68.
- Meyer, Frank L. Suspended ceiling hanger for drapery traverse rods. 3,198,471, 8-3-65, Cl. 248-265.
- Meyer, Friedrich, to Ebauches S.A. Timepiece. 3,177,647, 4-13-65, Cl. 58-58.
- Meyer, Gene A.: See—
- Maljanian, John M., and Meyer. 3,166,902.
- Meyer, Geo. J. Mfg. Co.: See—
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- Craig, George A. 3,179,231.
- Granier, Hector. 3,209,794.
- McGill, Robert W. 3,201,916.
- Meyer, George L. N. 3,197,014.
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- Vamvakas, Michael. 3,220,532.
- Meyer, George: See—
- Grace, Alan G., and Meyer. 3,196,421.
- Meyer, George C. Alarm for swimming pool. 3,204,232, 8-31-65, Cl. 340-261.
- Meyer, George E.: See—
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- Meyer, George F., Jr., and C. J. Forster, to Pure Carbon Co., Inc. Refractory fixture. 3,167,045, 1-26-65, Cl. 113-99.
- Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Article handling apparatus. 3,197,014, 7-27-65, Cl. 198-32.
- Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Self-cleaning nozzles. 3,214,102, 10-26-65, Cl. 239-107.
- Meyer, Gerhard: See—
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- Bair, Lester E., Meyer, and Kramer. 3,187,518.
- Meyer, Gerson, to Life-Like Products Inc. Mold and valve means for filling same. 3,222,718, 12-14-65, Cl. 18-5.
- Meyer, Godfried J. Rotary pump. 3,213,803, 10-26-65, Cl. 103-144.
- Meyers, Gordno C., to Teletype Corp. Automatic message identification circuit for telegraph machines. 3,179,742, 4-20-65, Cl. 178-3.
- Meyer, Hans. Measuring elements, particularly for considerable lengths. 3,176,403, 4-6-65, Cl. 33-168.
- Meyer, Hans. Comparator. 3,209,502, 8-17-65, Cl. 33-172.
- Meyer, Hans. Measuring instrument. 3,222,790, 12-14-65, Cl. 33-166.
- Meyer, Hans and P. Heat sealable fabrics. 3,212,530, 10-19-65, Cl. 139-420.
- Meyer, Hans J. G., and J. Volger, to North American Philips Co., Inc. Method of manufacturing thermoelectric devices such as thermobatteries or Peltier refrigerators. 3,209,433, 10-5-65, Cl. 29-153.5.
- Meyer, Hans-Ulrich: See—
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- Meyer, Harry A., and H. J. Langlois, to American Radiator & Standard Sanitary Corp. Fluid drive for reversible rotation. 3,190,076, 6-22-65, Cl. 60-54.
- Meyer, Heinz, W., to Elektrochemische Werke Munchen A.G. Catalyst for bulk and solution polymerization. 3,222,284, 12-7-65, Cl. 252-428.
- Meyer, Hendrik W. J. H.: See—
- Cornelissen, Johannes, Krulthof, and Meyer. 3,222,206.
- Meyer, Herbert, to Licentia Patent-Verwaltungs-G.m.b.H. Switch which reduces rebounding of its contacts. 3,196,231, 7-20-65, Cl. 200-87.
- Meyer, Herman G., Jr.: See—
- Sterns, Robert B., Mahony, and Meyer. 3,181,403.
- Meyer, Irel H.: See—
- Meyer, Jack W., and I. H. 3,182,835.
- Meyer, Irving S. Emergency warning system. 3,176,268, 8-30-65, Cl. 340-88.
- Meyer, Jack W., and I. H. Powered barrel truck. 3,182,835, 5-11-65, Cl. 214-383.
- Meyer, James R., to Chemical Design, Inc. Adsorption-desorption method. 3,221,476, 12-7-65, Cl. 55-28.
- Meyer, Jean: See—
- Glot, Maurice H. F., Jobart, Ferrot, and Meyer. 3,221,149.
- Meyer, Jerome C.: See—
- Tillotson, James A., III, and Meyer. 3,210,864.
- Meyer, Jerry A., to General Electric Co. Tone arm restraining device. 3,188,093, 6-8-65, Cl. 274-23.
- Meyer, Jerry A., to General Electric Co. Phonograph. 3,190,659, 6-22-65, Cl. 274-2.
- Meyer, John F., and E. J. Zalewski, to Schenectady Varnish Co., Inc. Insulated conductor having undercoat of isocyanurate modified polyester and overcoat of polyethylene terephthalate. 3,201,276, 8-17-65, Cl. 117-218.
- Meyer, John F., and E. J. Zalewski, to Schenectady Chemicals, Inc. Electric conductor coated with the reaction product of a dibasic polycarboxylic acid and tris(2-hydroxyethyl) isocyanurate together with an organic polyisocyanate or an alkyl titanate. 3,211,585, 10-12-65, Cl. 117-232.
- Meyer, John F. A., and N. H. Calvert, to Baker Perkins Inc. Apparatus for weight setting weighing devices. 3,213,954, 10-26-65, Cl. 177-248.
- Meyer, John L., to Gardner-Denver Co. Wire wrapping tool. 3,219,067, 11-23-65, Cl. 140-124.
- Meyer, Karl. Roof insulation. 3,210,901, 10-12-65, Cl. 52-378.
- Meyer, Karl-Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of pure 4',4'-di-(hydroxy-phenyl)-alkanes. 3,192,270, 6-29-65, Cl. 260-619.
- Meyer, Kuno, to Hoffmann-La Roche Inc. Process for the manufacture of cardioactive monoglycosides. 3,177,200, 4-6-65, Cl. 260-210.5.
- Meyer, Kurt: See—
- Heltmann, Gunter, and Meyer. 3,219,436.
- Meyer, Kurt, H. Rausch, G. Heltmann, and W. Koch, to Metallgesellschaft A.G. Process for reduction of iron ore with separate introduction of reducing agent. 3,180,725, 4-27-65, Cl. 75-33.
- Meyer, Kurt, G. Heltmann, and W. Janke, to Metallgesellschaft Aktiengesellschaft. Iron ore reducing rotary furnace with mantle burner nozzles of concentric tubes. 3,185,464, 5-25-65, Cl. 266-24.
- Meyer, Kurt, H. Rausch, G. Heltmann, and W. Janke, to Metallgesellschaft Aktiengesellschaft. Process for the direct reduction of iron ores in rotating cylindrical furnaces. 3,196,000, 7-20-65, Cl. 75-5.
- Meyer, Kurt, G. von Struve, and W. Stieger, to Dravo Corp. Method of and apparatus for the endothermic processing of ores. 3,203,782, 8-31-65, Cl. 75-5.
- Meyer, Kurt, H. Rausch, G. Heltmann, and W. Janke, to Metallgesellschaft Aktiengesellschaft. Method for the direct reduction of iron ore pellets. 3,215,521, 11-2-65, Cl. 75-5.
- Meyer, Lester L. Tobacco cutter and spudder. 3,178,873, 4-20-65, Cl. 56-27.5.
- Meyer, Lester W. A.: See—
- Gibson, Roger E., and Meyer. 3,194,866.
- Meyer, Lester W. A., to Eastman Kodak Co. Process for molding rod-like cigarette filter tip of cellulose ester flake. 3,201,505, 8-17-65, Cl. 264-109.
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- Meyer, N. S., Inc.: See—
- De Cristino, Albert J. 3,186,560.
- Meyer, Nealy E. Sanding block. 3,173,231, 3-16-65, Cl. 51-391.
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- Antz, Hans M., Hofmann, and Meyer. 3,220,442.
- Meyer, Owen L.: See—
- Harman, George G., Jr., Higler, Meyer, and Raybold. 3,226,610.
- Meyer, Peter: See—
- Meyer, Hans and P. 3,212,530.
- Meyer, Peter R. and F. S. Multiple clothes hanger. 3,212,647, 10-19-65, Cl. 211-118.
- Meyer, Ralph, to Skyline Mfg. Co. Fixture for displaying yard goods. 3,195,480, 7-20-65, Cl. 108-13.
- Meyer, Raymond A.: See—
- Treattis, Harry N., Watts, and Meyer. 3,165,403.
- Treattis, Harry N., Watts, and Meyer. 3,169,859.
- Meyer, Ree V., to Midwest Rubber Reclaiming Co. Retarding the increase in viscosity of reclaimed rubber with sodium nitrite. 3,184,422, 5-18-65, Cl. 260-2.3.
- Meyer, Reinier H.: See—
- Schlumberger, Etienne M., and Meyer. 3,214,963.
- Meyer, Richard L.: See—
- Fox, Edgar C., Jr., and Meyer. 3,189,195.
- Meyer, Robert B.: See—
- Findley, Samuel A., and Meyer. 3,193,992.
- Meyer, Robert B., and S. A. Findley, to Kingston Products Corp. Lamp socket. 3,183,475, 5-11-65, Cl. 339-188.
- Meyer, Robert E., and W. E. Helfrich, to United States of America, Navy. Oxygen injection system. 3,170,294, 2-23-65, Cl. 60-39.46.
- Meyer, Ronald E., to Remwood Chemical Co. Conductivity probe. 3,201,685, 8-17-65, Cl. 324-30.
- Meyer, Ronald K. Hospital luminaire. 3,200,244, 8-10-65, Cl. 240-73.
- Meyer, Roy E. Tower structure. 3,217,459, 11-16-65, Cl. 52-731.
- Meyer, Roy E., and H. L. Thompson, to Meyer Machine, Inc. Safety appliance. 3,179,994, 4-27-65, Cl. 24-134.
- Meyer, Robert F., and B. L. Cummings, to Parke, Davis & Co. Certain 2,1-benzisothiazole compounds. 3,187,001, 6-1-65, Cl. 260-304.
- Meyer, Rudolf X., to Thompson Ramo Woolridge Inc. Electromagnetic radiant energy response apparatus. 3,174,537, 3-23-65, Cl. 165-30.
- Meyer, Rudolf X., to TRW, Inc. Propulsion arrangement. 3,225,286, 12-21-65, Cl. 313-63.
- Meyer, Siegfried. Collapsible umbrella. 3,170,474, 2-23-65, Cl. 135-26.
- Meyer, Siegfried. Collapsible umbrella. 3,171,418, 3-2-65, Cl. 135-26.
- Meyer, Sylvanus, to General Motors Corp. Lens. 3,187,177, 6-1-65, Cl. 240-106.
- Meyer, Vincent E., and W. O. Eastman, to General Electric Co. Peroxide cured polyethylene with polyvinyl chloride filler and wire coated with the same. 3,171,866, 3-2-65, Cl. 260-897.
- Meyer, Waldemar, to Atlas Copoco Aktiebolag. Apparatus for rotating a shaft with fluid pressure cylinders. 3,209,842, 10-5-65, Cl. 173-43.
- Meyer, Walker T.: See—
- Kimminger, Kenneth T., and Meyer. 3,197,930.
- Meyer, Walter, to Oak Mfg. Co. Self aligning contact assembly. 3,209,110, 9-28-65, Cl. 200-166.
- Meyer, Walter E., J. B. Patrick, and J. H. Mowat, to American Cyanamid Co. N-substituted derivatives of mitomycin A and mitomycin C. 3,226,393, 12-28-65, Cl. 260-295.
- Meyer, Walter H. Car-top boat loader and carrier. 3,170,583, 2-23-65, Cl. 214-450.
- Meyer, Walter W., and W. M. Teller, to Sealol, Inc. Rotary joint and drum. 3,217,794, 11-16-65, Cl. 165-89.
- Meyer & Wente, Inc.: See—
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- Meyer, Wilhelm. Exhaust gas system for internal combustion engines. 3,221,493, 12-7-65, Cl. 60-30.
- Meyer, William E., to North American Aviation, Inc. Extensible line having constant electrical length. 3,182,273, 5-4-65, Cl. 333-98.
- Meyerer, Paul, to Siemens & Halske Aktiengesellschaft. Permanent magnet system for focusing an electron beam in a travelling wave tube. 3,182,234, 5-4-65, Cl. 317-200.
- Meyerer, Paul, to Siemens & Halske Aktiengesellschaft. Homogeneous magnetic field generating structure. 3,209,199, 9-28-65, Cl. 315-5.35.
- Meyerhoefer, Carl E., to Knomark, Inc. Containers. 3,186,679, 6-1-65, Cl. 220-43.
- Meyerhoefer, Carl E. End construction for multi-gusset bag. 3,197,118, 7-27-65, Cl. 229-62.5.
- Meyerhoefer, Carl E., to Equitable Paper Bag Co., Inc. Double gusset bag. 3,201,027, 8-17-65, Cl. 229-53.
- Meyerhoefer, Carl E., to Kromark, Inc. Shoe polish kit. 3,224,572, 12-21-65, Cl. 206-47.
- Meyerhoff, Leonard, to Eastern Research Group. Ducted fan aircraft. 3,201,087, 8-17-65, Cl. 244-23.
- Meyerhoff, Louis: See—
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- Meyerhoff, Louis, to General Cable Corp. Enamel strand conductor for pipe type cable. 3,164,669, 1-5-65, Cl. 174-114.
- Meyering, Lawrence V., to Deutsch & Sons, Inc. Inflatable water amusement device. 3,207,509, 9-21-65, Cl. 272-32.
- Meyer-Jagenberg, Gunther, to Jagenberg-Werke AG. Method of and apparatus for dispensing liquids, such as milk or the like. 3,177,906, 4-13-65, Cl. 141-5.
- Meyer-Jagenberg, Gunther, to Jagenberg Werke Akt.-Ges. Liquid tight prismatic container of paper, cardboard or the like. 3,197,112, 7-27-65, Cl. 229-37.
- Meyer-Jagenberg, Gunther, to Jagenberg Werke Akt.-Ges. Method of inserting marking strips into stacks. 3,205,739, 9-14-65, Cl. 83-23.
- Meyer-Jagenberg, Gunther, to Jagenberg-Werke Akt.-Ges. Method and apparatus for depositing sheets ejected by a cross cutter. 3,224,761, 12-21-65, Cl. 271-68.
- Meyerowitz, Nathan L. Bracket. 3,167,292, 1-26-65, Cl. 248-230.
- Meyers, Cal Y.: See—
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- Meyers, Douglas C., to Shell Oil Co. Submerged oil storage system. 3,189,224, 6-15-65, Cl. 222-23.

- Meyers, Dwight G., to Letter Lover, Inc. Envelope shear. 3,225,441, 12-28-65, Cl. 30-231.
- Meyers, Ellwood H., and R. L. Kepler, to Morrison Co. Core lift for industrial trucks. 3,195,751, 7-20-65, Cl. 214-620.
- Meyers, George L., to American Can Co. Tamperproof reclosable carton. 3,191,848, 6-29-65, Cl. 229-51.
- Meyers, Gilbert W.: See—
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- Meyers, Gilbert W., to The Babcock & Wilcox Co. Fuel element end closure assembly. 3,169,097, 2-9-65, Cl. 176-79.
- Meyers, Gilbert W., to The Babcock & Wilcox Co. Fuel elements. 3,172,821, 3-9-65, Cl. 176-78.
- Meyers, John C., Jr.: See—
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- Meyers, John S., to Hoover Ball and Bearing Co. Pad for covering contoured cushion spring structure. 3,184,767, 5-25-65, Cl. 5-345.
- Meyers, John S., to Hoover Ball and Bearing Co. Reinforcing member for spring element. 3,185,466, 5-25-65, Cl. 267-105.
- Meyers, Joseph A. III, and E. G. Shay, to The Atlantic Refining Co. Polyalkoxyhydropyrimines. 3,207,791, 9-21-65, Cl. 260-584.
- Meyers, Martin B.: See—
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- Meyers, Norman H.: See—
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- Meyers, Phillip H. Disposable sanitary container for radiographic enemas. 3,177,871, 4-13-65, Cl. 128-227.
- Meyers, Raymond E., and E. W. Eubanks, to The Glidden Co. Vinyl-resin coated cans and process. 3,177,092, 4-6-65, Cl. 117-132.
- Meyers, Raymond E., and E. W. Eubanks, to The Glidden Co. Mixed neutral vinyl resin/reactive vinyl resin coating compositions, and cans and/or container components coated therewith. 3,219,729, 11-23-65, Cl. 260-899.
- Meyers, Robert J.: See—
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- Meyers, Stanley T., to Bell Telephone Laboratories, Inc. Shift register employing bistable multiregion semiconductor devices. 3,168,649, 2-2-65, Cl. 307-88.5.
- Meyer-Simon, Eugen, and A. Frey, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Production of zirconium compounds from alkali metal-zirconium silicates. 3,168,374, 2-2-65, Cl. 23-117.
- Meylan, Bernard. Gas lighter. 3,224,235, 12-21-65, Cl. 67-7.1.
- Meylan, Georges, to J. Bobst and Son S.A. Continuous stack advancing apparatus. 3,180,638, 4-27-65, Cl. 271-62.
- Meylan, Georges, and P. Lang, to J. Bobst and Son S.A. Waste picking devices. 3,215,049, 11-2-65, Cl. 93-36.
- Meyrat, Lucien, to Meyrat & Lulsol. Apparatus for lapping chains. 3,183,781, 5-18-65, Cl. 90-19.
- Meyrat & Lulsol: See—
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- Aitken, Roxburgh R., Dadson, and Meyrick. 3,210,439.
- Meysebourg, David M., and G. E. Nelson. Method and apparatus for compounding desired concentrations. 3,211,431, 10-12-65, Cl. 259-12.
- Meystre, Charles: See—
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- Wettstein, Albert, Anner, Meystre, and Kalvoda. 3,178,417.
- Meystre, Charles, A. Wettstein, O. Jeger, G. Anner, K. Heusler, and P. Wieland, to Ciba Corp. 18-substituted steroids and process for their manufacture. 3,178,414, 4-13-65, Cl. 260-239.55.
- Mezerenyl, Ilona C. Fastener with nose for garment and belt. 3,181,220, 5-4-65, Cl. 24-225.
- Mhatre, Madhukar V., to Abbott Laboratories. Sulfonation of cyclohexylamine with SO₃. 3,226,430, 12-28-65, Cl. 260-501.
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- Miale, Gollardo, to Westinghouse Electric Corp. Frame support for grid. 3,213,313, 10-19-65, Cl. 313-350.
- Miale, Joseph N., to Socony Mobil Oil Co., Inc. Catalytic conversion of hydrocarbons with the use of a nitrogen compound as an activator. 3,178,365, 4-13-65, Cl. 208-120.
- Miale, Joseph N., and P. B. Weisz, to Socony Mobil Oil Co., Inc. Catalytic conversion with activated catalyst. 3,173,855, 3-16-65, Cl. 208-120.
- Miale, Joseph N., and P. B. Weisz, to Socony Mobil Oil Co., Inc. Catalytic conversion with activated catalyst. 3,175,967, 3-30-65, Cl. 208-120.
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- Miaskoff, Leonard, to Fairchild Camera and Instrument Corp. Pullout feed roller for printing press. 3,210,074, 10-5-65, Cl. 271-51.
- Miaskoff, Leonard, and F. L. Warner, to Fairchild Camera and Instrument Corp. Drum latching mechanism for printing press. 3,168,038, 2-2-65, Cl. 101-233.
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- Micale, Angelo. Adjustable finger attachment for sewing machines. 3,198,151, 8-3-65, Cl. 112-152.
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- Midyette, Allen L., Jr., to American Radiator & Standard Sanitary Corp. Article of furniture. 3,183,034, 5-11-65, Cl. 297-239.
- Midyette, Allen L., Jr., to American Radiator & Standard Sanitary Corp. Hinge construction for water closet seat. 3,191,192, 6-29-65, Cl. 4-240.
- Mieczkowski, Robert W. Air control apparatus. 3,188,937, 6-15-65, Cl. 98-43.
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- Miederer, Walter, G. Ziegler, and R. Dotzer, to Siemens-Schuckertwerke Aktiengesellschaft. Method of crucible-free production of gallium arsenide rods from alkyl galliums and arsenic compounds at low temperatures. 3,226,270, 12-28-65, Cl. 148-174.
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- Miles, Marshall, to Stewart-Warner Corp. Low power thermostatic control having independent load source. 3,223,804, 12-14-65, Cl. 200-122.
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- Millar, Huntly D., to E & M Instrument Co., Inc. Recording equipment. 3,185,990, 5-25-65, Cl. 346-112.
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- Millard, Philip V., to Automotive Rubber Co., Inc. Insulating grommets. 3,182,119, 5-4-65, Cl. 174-151.
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- Millenaar, Richard J., and E. G. Blair, deceased (by M. T. Blair, executrix), to Oscar Mayer & Co., Inc. Sausage stuffing and linking apparatus. 3,166,784, 1-26-65, Cl. 17-33.
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- Miller, Arthur F., and W. B. Howson, Jr., to The Standard Oil Co. Manufacture of trimethylene diamine and N-propylamine. 3,166,506, 1-19-65, Cl. 260-583.
- Miller, Arthur J., to Carrier Corp. Vibration damped turbo machinery. 3,180,616, 4-27-65, Cl. 253-77.
- Miller, August L., H. W. Weller, Jr., and R. S. Brown, to United States of America, Agriculture. Fiber retriever. 3,205,538, 9-14-65, Cl. 19-204.
- Miller, Austin V., H. S. Hunt, and E. L. Thompson, to Middletown Mfg. Co., Inc. Self-return swivel of opposed plate type. 3,199,826, 8-10-65, Cl. 248-417.
- Miller, Avy L. Gas burner. 3,192,989, 7-6-65, Cl. 158-114.
- Miller, Avy L. Water heater with heat insulating coating on tubes. 3,203,404, 8-31-65, Cl. 122-236.
- Miller, Avy L. Water heating method and apparatus. 3,211,373, 10-12-65, Cl. 236-20.
- Miller, Bernard, and D. W. Long, to American Cyanamid Co. O-2-pyrazinyl phosphorodichloridothioates. 3,172,888, 3-9-65, Cl. 260-250.
- Miller, Bernard, and T. P. O'Leary, Jr., to American Cyanamid Co. Preparation of N-substituted phosphoramidothioates. 3,183,257, 5-11-65, Cl. 260-461.
- Miller, Bertha E. Artificial limb cushioning pad. 3,186,006, 6-1-65, Cl. 3-19.
- Miller, Bertrand J.: See—
- Morris, George V., Roschke, Druz, and Miller. Re. 25,837.
- Miller, Bob C., to United States of America, Navy. Nozzle position and after burner lighting indicator. 3,192,711, 7-6-65, Cl. 60-35,6.
- Miller, Boyd C. Seal for tunnel kilns. 3,168,299, 2-2-65, Cl. 263-28.
- Miller, Boyd C. Impact hammer for hammermills. 3,207,448, 9-21-65, Cl. 241-197.
- Miller, Boyd C. Furnace section for kiln. 3,218,328, 11-23-65, Cl. 263-28.
- Miller Brewing Co.: See—
- Neuman, Larry K., and Melotik. 3,197,110.
- Miller, Bruce D., and R. L. Smith, to Chemetron Corp. Valve arrangement for receptacle filling machines. 3,168,225, 2-2-65, Cl. 222-360.
- Miller, Byron E., and D. D. Dahlstrom, to Shell Oil Co. Code responsive receiver having means for ignoring repeated transmissions of the same digital code. 3,189,874, 6-15-65, Cl. 340-147.
- Miller, Cardell E., to Minnesota Mining and Mfg. Co. Compression type hand tool. 3,220,241, 11-30-65, Cl. 72-446.
- Miller, Carl F., and H. M. Heyn, to Westinghouse Electric Corp. Method of forming sealed article. 3,166,396, 1-19-65, Cl. 65-32.
- Miller, Carl F., and D. I. Gray, to Westinghouse Electric Corp. Sealed articles and methods of forming the same. 3,208,892, 9-28-65, Cl. 156-89.
- Miller, Carl J., F. F. Timpaner, and H. Aldikacti, to General Motors Corp. Torque tube having a varying section modulus. 3,167,149, 1-26-65, Cl. 180-70.
- Miller, Carl S., to Minnesota Mining & Mfg. Co. Simultaneous multicolor printing. 3,213,787, 10-26-65, Cl. 101-211.
- Miller, Carl S., and B. W. Neher, to Minnesota Mining and Mfg. Co. Laterally disposed coterminously adjacent multicolor area containing graphic reproduction receptor and electrophotographic process of using same. 3,212,887, 10-19-65, Cl. 96-1.
- Miller, Caroline D.: See—
- Berger, Bernard B., Miller, and Langer. 3,208,951.
- Miller, Charles, and P. Romanelli, to Ram Domestic Products Co. Ignition and control system for gas-fueled heating devices. 3,196,029, 7-27-65, Cl. 158-124.
- Miller, Charles A., and R. L. Hull, to Parke, Davis & Co. Process for the production of a methyl- α -phenyl- β -ethylaucinimide. 3,183,245, 5-11-65, Cl. 260-326,5.
- Miller, Charles E.: See—
- Ehret, Yale W., and Miller. 3,213,286.
- Mayer, Alfred A., and Miller. 3,185,095.
- Mayer, Alfred A., and Miller. 3,215,077.
- Metcalfe, John S., Miller, and Olney. 3,171,350.
- Williams, Charles O., Miller, and Metcalfe. 3,164,090.
- Miller, Charles F., to Motorola, Inc. Semiconductor device with cold welded package and method of sealing the same. 3,219,748, 11-23-65, Cl. 174-52.
- Miller, Charles G. Telephone switching system. 3,189,687, 6-15-65, Cl. 179-18.
- Miller, Charles M., to The Adams & Westlake Co. Latch assembly. 3,220,759, 11-30-65, Cl. 292-120.
- Miller, Charles M., and M. E. Staley, to The Adams & Westlake Co. Pedestal. 3,195,848, 7-20-65, Cl. 248-411.
- Miller, Clarence E. Magneto having auxiliary pole piece. 3,210,582, 10-5-65, Cl. 310-156.
- Miller, Clarence R.: See—
- Miller, Lawrence E. and E. D. 3,185,278.
- Miller, Clark O.: See—
- Gipstein, Edward, and Miller. 3,169,145.
- Miller, Clark T.: See—
- Kozlowski, Edward T., and Miller. 3,216,221.
- Miller Co., The: See—
- Pascucci, Ernest B. 3,176,260.
- Miller, Dale L. Calculator device. 3,189,272, 6-15-65, Cl. 235-61.
- Miller, Dale W., and W. F. Clark, to General Motors Corp. Plural propeller pitch change control system. 3,201,068, 8-17-65, Cl. 244-17,23.
- Miller, David B.: See—
- Iwnicki, Kurt, and Miller. 3,167,846.
- Iwnicki, Kurt, and Miller. 3,200,467.
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- Miller, David I.: See—
- Bingham, Charles T., Miller, and Kozlowski. 3,217,534.
- Miller, David R., and R. H. Rathburn, to Computronics, Inc. Non-linear element for an analog computer. 3,217,151, 11-9-65, Cl. 235-194.
- Miller, David T. A., to Wittaker Corp. Pressure ratio switch. 3,180,359, 4-27-65, Cl. 137-625,4.
- Miller, Donald E., and C. C. Bauerlein, to The Dole Valve Co. Slug valve driven ice maker. 3,182,465, 5-11-65, Cl. 62-137.
- Miller, Donald J., to Addressograph-Multigraph Corp. Holding and adjusting means for printing members. 3,188,952, 6-15-65, Cl. 101-415,1.
- Miller, Donald K. Suspension knock-down shelter. 3,195,507, 7-20-65, Cl. 119-23.
- Miller, Donald L., to Daryl Industries, Inc. Sliding screen top guide. 3,172,145, 3-9-65, Cl. 16-87.
- Miller, Donald P., to Texas Instruments Inc. Apparatus for forming clean iron-lead telluride high temperature pressure contacts. 3,165,615, 1-12-65, Cl. 219-9,5.
- Miller, Dorr W.: See—
- Bates, Max H., Miller, and Woveris. 3,188,724.
- Miller, Earl E., and A. C. Rehm, to James Heddon's Sons. Feathering device for closed face spinning reel. 3,176,939, 4-6-65, Cl. 242-84,2.
- Miller, Earle C.: See—
- Kuhner, Max H., and Miller. 3,168,074.

- Miller, Earle C., to Riley Stoker Corp. Steam generating unit. 3,182,640, 5-11-65, Cl. 122-479.
- Miller, Earle C., to Riley Stoker Corp. Ball mill. 3,189,285, 6-15-65, Cl. 241-171.
- Miller, Earle C., to Riley Stoker Corp. Coking stoker. 3,200,049, 8-10-65, Cl. 202-117.
- Miller, Earle C., to Riley Stoker Corp. Burner. 3,203,463, 8-31-65, Cl. 158-1.5.
- Miller, Earle C., to Riley Stoker Corp. Furnace access apparatus. 3,207,132, 9-21-65, Cl. 122-235.
- Miller, Earle C., to Riley Stoker Corp. Steam generating unit. 3,207,134, 9-21-65, Cl. 122-479.
- Miller, Earle F., Jr. Method for marking metal articles. 3,222,752, 12-14-65, Cl. 29-90.
- Miller, Edith H., I. Hechenbleikner, and O. A. Homberg, to Carlisle Chemical Works, Inc. Oxathia cyclopentanones. 3,209,012, 9-28-65, Cl. 260-327.
- Miller, Edward H., and F. O. Furman, to Koppers Co., Inc. Noise inhibiting device. 3,165,167, 1-12-65, Cl. 181-51.
- Miller, Edwin A., to Texas Instruments Inc. Composite electrically conductive spring materials. 3,212,865, 10-19-65, Cl. 29-196.3.
- Miller, Edwin J.: See—
- Hornaday, James R., Jr., Miller, and Vigor. 3,167,638.
- Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Method of alip casting basic refractory materials. 3,189,668, 6-15-65, Cl. 264-56.
- Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Refractory. 3,205,081, 9-7-65, Cl. 106-65.
- Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Fabrication of alumina refractories. 3,220,862, 11-30-65, Cl. 106-65.
- Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Alumina refractories. 3,226,241, 12-28-65, Cl. 106-65.
- Miller, Eldon D., Jr., and R. K. Scott, to Harbison-Walker Refractories Co. Immersion sampler. 3,221,559, 12-7-65, Cl. 73-425.4.
- Miller Electric Mfg. Co.: See—
- Grist, Franklin J. 3,225,290.
- Miller, Ellsworth B., and T. A. Godfrey, to Philco Corp. Method of inlaying wood panels. 3,212,542, 10-19-65, Cl. 144-317.
- Miller, Ellsworth B., Jr., to Philco Corp. Mounting structure for a picture tube comprising mounting brackets and wedging straps therefor. 3,175,036, 3-23-65, Cl. 178-7.9.
- Miller, Elmer L.: See—
- Folkins, Hillis O., and Miller. 3,197,417.
- Miller Engineering Corp.: See—
- Miller, Frank H., Jr. 3,164,080.
- Miller, Esther, Doll Creations, Inc.: See—
- Miller, Harold. 3,212,212.
- Miller, Eugene M.: See—
- Kelley, Jerry, and Miller. 3,219,780.
- Miller, Eugene M., and J. O. Kelley, to Radon Corp., and Donald J. Moloney & Associates, Inc. Electromagnetic relay with sliding leaf spring movable contacts. 3,219,781, 11-23-65, Cl. 200-104.
- Miller, Eugene P., to The Colorado Fuel and Iron Corp. Mold coating composition. 3,186,855, 6-1-65, Cl. 106-58.23.
- Miller, Exile D.: See—
- Miller, Lawrence E. and E. D. 3,185,278.
- Miller, Felix H. Shipping container for liquids. 3,179,323, 4-20-65, Cl. 229-14.
- Miller, Floyd V.: See—
- Noll, George C., and Miller. 3,217,895.
- Miller, Frank, to Air Products and Chemicals, Inc. Quaternary salts of 1,4-diazolabicyclo-(2.2.2)-octane. 3,213,096, 10-19-65, Cl. 260-268.
- Miller, Frank B., Mfg. Co., Inc.: See—
- Lane, Ralph G., and Lamb. 3,203,053.
- Miller, Frank D., and J. J. Wheeler, to Eastman Kodak Co. Coating high viscosity liquids. 3,208,323, 9-14-65, Cl. 117-34.
- Miller, Frank G., and E. A. Dittmar, to Morton Salt Co. Process for preparing culinary salt. 3,198,608, 8-3-65, Cl. 23-300.
- Miller, Frank H., Jr., to Miller Engineering Corp. Bag palletizer. 3,164,080, 1-5-65, Cl. 100-35.
- Miller, Franklyn D.: See—
- Newberg, Raymond G., Miller, and Wagensommer. 3,173,901.
- Weber, George R., and Miller. 3,165,413.
- Miller, Franklyn D., and E. D. Biggers, to National Distillers and Chemical Corp. Removal of fluorine from wet process phosphoric acid. 3,193,351, 7-6-65, Cl. 28-165.
- Miller, Fred B., to Evans Products Co. Freight bracing apparatus. 3,185,075, 1-12-65, Cl. 105-369.
- Miller, Fred B., to Evans Products Co. Bulkhead guide bracket. 3,203,363, 8-31-65, Cl. 105-376.
- Miller, Fred J. Duplex push plate assembly for swinging doors. 3,222,732, 12-14-65, Cl. 20-16.
- Miller, Fred J. Bracket for supporting rails. 3,223,371, 12-14-65, Cl. 248-251.
- Miller, Frederick A., and D. E. Earls, to P. R. Mallory & Co., Inc. Interval timer. 3,206,650, 9-14-65, Cl. 317-142.
- Miller, Gene L.: See—
- Reiber, Frederick E., Miller, and Lawrence. 3,178,536.
- Miller, George: See—
- Cheosky, Nicholas Jr., and Miller. 3,179,114.
- Miller, George M., to General Electric Co. Magnetic reproducing apparatus. 3,167,742, 1-26-65, Cl. 340-146.3.
- Miller, George M., to General Electric Co. Detection of long waveshapes in automatic symbol reader. 3,192,504, 6-29-65, Cl. 340-146.3.
- Miller, George P., and B. J. Terracciano, to The Bunker-Ramo Corp. Magnetic recording device. 3,219,988, 11-23-65, Cl. 340-174.1.
- Miller, George T.: See—
- Osborne, Sidney G., and Miller. 3,220,941.
- Miller, George V., Jr. Telescope mounts for rifles. 3,187,435, 6-8-65, Cl. 33-50.
- Miller, Gerald A. Burst diaphragm and method of making same. 3,195,769, 7-20-65, Cl. 220-89.
- Miller, Gladys D.: See—
- Boller, George E., and Renk. 3,210,138.
- Miller, Glen E., to The Boeing Co. Diversity combining system employing differential sampling. 3,206,679, 9-14-65, Cl. 325-304.
- Miller, Glenn E., to Western Electric Co., Inc. Article cleaning apparatus. 3,168,755, 2-9-65, Cl. 15-93.
- Miller, Glenn E., to Western Electric Co., Inc. Article assembling apparatus. 3,184,836, 5-25-65, Cl. 29-203.
- Miller, Glyde B. Automatic grinder. 3,177,622, 4-13-65, Cl. 51-2.
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- Miller, Guy W., and A. Benyi, Jr., to United Aircraft Corp. Seal plate arrangement. 3,186,720, 6-1-65, Cl. 277-9.
- Miller, Harmon B.: See—
- De Loach, Forrest H., Jr., and Miller. 3,175,913.
- Miller, Harold, to Esther Miller, Doll Creations, Inc. Wheeled stuffed toy. 3,212,212, 10-19-65, Cl. 46-103.
- Miller, Harold E., and R. C. Twomey, to Douglas Aircraft Co., Inc. Coaxial cable connector. 3,195,098, 7-13-65, Cl. 339-103.
- Miller, Harold F.: See—
- Sports, Dick, Voshel, and Miller. 3,211,033.
- Miller, Harold G.: See—
- Hendershot, Charles E. 3,177,855.
- Miller, Harold J., to Eagle Crusher Co., Inc. Rotary rock crusher. 3,174,698, 3-23-65, Cl. 241-275.
- Miller, Harold L., to Vemco Products, Inc. Swinging door and gate operator. 3,180,635, 4-27-65, Cl. 268-74.
- Miller, Harold L., to Vemco Products, Inc. Safety door actuator. 3,193,274, 7-6-65, Cl. 268-59.
- Miller, Harry, to Sperry Rand Corp. Aircraft performance indicating apparatus. 3,188,861, 6-15-65, Cl. 73-178.
- Miller, Harry C., and S. Helesfal, to Sargent & Greenleaf Inc. Combination lock construction. 3,170,316, 2-23-65, Cl. 70-333.
- Miller, Harry L., to Western Electric Co., Inc. Miniaturized and transistorized frequency selective amplifier circuit. 3,207,959, 9-21-65, Cl. 317-147.
- Miller, Harvey E., to The General Tire & Rubber Co. Cushioned bearing assembly. 3,188,152, 6-8-65, Cl. 308-36.1.
- Miller, Harvey L.: See—
- Krause, Stephen R., and Miller. 3,225,265.
- Miller, Henry, Spring and Mfg Co.: See—
- Chambers, Isaac M. 3,225,579.
- Miller, Henry A., Jr., to Air Reduction Co. Inc. Breathing system. 3,190,287, 6-22-65, Cl. 128-144.
- Miller, Henry C.: See—
- Grigger, John C., and Miller. 3,213,610.
- Miller, Henry C., and E. L. Muetterties, to E. I. du Pont de Nemours and Co. Dodecahydrododecaborate and method for producing same. 3,189,044, 2-9-65, Cl. 23-14.
- Miller, Henry C., and E. L. Muetterties, to E. I. du Pont de Nemours and Co. Dodecahydrododecaborate compounds. 3,169,045, 2-9-65, Cl. 28-14.
- Miller, Henry C., and A. L. Oppegar, to E. I. du Pont de Nemours and Co. Non-pyrophoric, ferromagnetic acicular particles and their preparation. 3,206,338, 9-14-65, Cl. 148-105.
- Miller, Henry F.: See—
- Foster, Boutwell H., and Miller. 3,188,813.
- Rhodes, Thomas J., and Miller. 3,218,809.
- Miller, Henry F., and T. J. Rhodes, to United States Rubber Co. Wave damping apparatus. 3,222,870, 12-14-65, Cl. 61-5.
- Miller, Henry F., and T. J. Rhodes, to United States Rubber Co. Method and apparatus for transporting material in a liquid having wave propagation. 3,222,871, 12-14-65, Cl. 61-5.
- Miller, Henry L., and T. R. Ramsden, to West Penn Screen Service, Inc. Stencil screen frame. 3,167,004, 1-26-65, Cl. 101-127.1.
- Miller, Henry Z., M. A. Koltuniak, and C. E. Fenoglio, to The Udylite Corp. Saturable reactor controlled transformer system. 3,223,921, 12-14-65, Cl. 323-56.
- Miller, Herbert D.: See—
- Johnson, Forrest A., and Miller. Re. 25,719.
- Miller, Herbert E.: See—
- Johnson, Forrest A., and Miller. 3,187,316.
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- Court, Frank B., and Miller. 3,207,445.
- Miller, Herman, Inc.: See—
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- Miller Hoff, Inc.: See—
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- Miller, Howard C., to Morton Salt Co. Apparatus and method of producing brine. 3,168,379, 2-2-65, Cl. 23-312.
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- Fillipaki, Stanley P., Miller, and Newman. 3,226,523.
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- Miller, J. A., Tile Co.: See—
- Miller, Ray R., and J. R. 3,197,530.
- Miller, J. Carter, and R. W. Lanman, to Carter Controls, Inc. Cylinder and piston arrangement. 3,224,817, 12-21-65, Cl. 308-3.5.
- Miller, Jack V., to Electro-Optical Systems Inc. Electronic packaging apparatus. 3,164,750, 1-5-65, Cl. 317-101.
- Miller, Jack V., to Electro-Optical Systems, Inc. Pressure gauge instrument. 3,191,440, 6-29-65, Cl. 73-398.
- Miller, Jack V., to Electro-Optical Systems, Inc. Wind-measuring meter device. 3,216,247, 11-9-65, Cl. 73-189.
- Miller, Jack V., to Electro-Optical Systems, Inc. Antenna with wire mesh reflector collapsing in a pinwheel manner. 3,217,328, 11-9-65, Cl. 343-840.
- Miller, James C., to United States of America, Navy. Fast high current driver using tunnel diodes. 3,171,038, 2-23-65, Cl. 307-88.5.
- Miller, James C., to Radio Corporation of America. Memory systems using tunnel diodes. 3,201,595, 8-17-65, Cl. 307-88.5.
- Miller, James C., and K. Li, to United States of America, Navy. Tunnel diode memory with nondestructive readout. 3,188,485, 6-8-65, Cl. 307-88.5.
- Miller, James E. Machine for dispensing liquids. 3,223,023, 12-14-65, Cl. 99-283.
- Miller, James F., to Radio Corp. of America. Method of manufacturing electron discharge devices. 3,184,278, 5-18-65, Cl. 316-19.
- Miller, James F., to Titanium Metals Corp. of America. Attachment of a leader to a metallic strip. 3,205,050, 9-7-65, Cl. 29-180.
- Miller, James H.: See—
- Miller, Lorin G., and J. H. 3,223,078.
- Miller, James K. Method of and apparatus for making and projecting stereoscopic pictures employing a spherical mirror segment. 3,200,409, 8-10-65, Cl. 352-60.
- Miller, James L.: See—
- Menk, Melvin A., and Miller. 3,218,730.
- Miller, James R.: See—
- Miller, Ray R., and J. R. 3,197,530.
- Miller, James R., to Aerodyne Controls Corp. Gravity responsive switch. 3,183,321, 5-11-65, Cl. 200-61.48.
- Miller, James W., to General Motors Corp. Brake shoe guide mechanism. 3,220,515, 11-30-65, Cl. 188-78.
- Miller, Jerry W., to Ampex Corp. Automatic gain control circuit employing variable attenuation balanced diode bridge. 3,226,653, 12-28-65, Cl. 330-26.
- Miller, Joe W. Hairband with detachable cover. 3,211,160, 10-12-65, Cl. 132-47.
- Miller, John, to The F. & M. Schaefer Brewing Co. Transfer mechanism for conveyor key palletizing device. 3,181,684, 5-4-65, Cl. 198-24.
- Miller, John, to The F. & M. Schaefer Brewing Co. Pallet magazine. 3,199,725, 8-10-65, Cl. 221-290.
- Miller, John B., Jr.: See—
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- Miller, John D., to Varian Associates. Output window and coupler for high frequency electron discharge device. 3,221,206, 11-30-65, Cl. 315-3.5.
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- Grebe, John J., and Miller. 3,201,228.
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- Miller, William J. 3,171,405.
- Miller, John M.: See—
- Gianturco, Maurizio A., and Miller. 3,164,474.
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- Miller, John S., Jr.: See—
- Harrison, Thomas L., Miller, and Backus. 3,192,685.
- Miller, Jolyon E.: See—
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- Miller, Jorge, to Procesos Industriales Ltd. Apparatus for making steel. 3,201,105, 8-17-65, Cl. 266-34.
- Miller, Joseph A., and F. A. Kruglinski, to General Corrugated Machinery Co., Inc. Carton taping machine. 3,199,262, 8-10-65, Cl. 53-66.
- Miller, Joseph G., and M. Evans, to College Research Co. Apparatus for separating metals. 3,193,273, 7-6-65, Cl. 266-37.
- Miller, Joseph H.: See—
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- Hawley, George F., Murphy, Moulder, Miller, and Crane. 3,191,749.
- Miller, Joseph N., to Jackes-Evans Mfg. Co. Three-way valve and system therefor. 3,225,557, 12-28-65, Cl. 82-156.
- Miller, Joseph P., to General Motors Corp. Regenerative gas turbine. 3,186,478, 6-1-65, Cl. 165-7.
- Miller, Joseph P., to Chicago Stock Yards Turdo Refrigeration Co. Ice maker having water thawing means. 3,190,083, 6-22-65, Cl. 62-319.
- Miller, Joseph P. Machine for handling classifiable materials. 3,211,312, 10-12-65, Cl. 214-302.
- Miller, Joseph R. Cable feed mechanism. 3,218,033, 11-16-65, Cl. 254-134.8.
- Miller, Kenneth D., Jr.: See—
- Heinemann, Heinz, and Miller. 3,214,481.
- Miller, Kenneth D., Jr., to United States of America, Navy. Amalgam regenerator for primary battery system. 3,181,848, 5-4-65, Cl. 266-34.
- Miller, Kenneth E., and L. C. Rama, to John Fluke Mfg. Co., Inc. Thermoelectric converter type RMS meter using feedback rebalancing to maintain the converter at constant temperature. 3,213,364, 10-19-65, Cl. 324-106.
- Miller, Kenneth F., to Bourns, Inc. Trimming capacitor. 3,218,527, 11-16-65, Cl. 317-249.
- Miller, Kenneth J. Surface projectile movable amusement device. 3,218,074, 11-16-65, Cl. 273-109.
- Miller, Kenneth L., to E. I. du Pont de Nemours and Co. Chloroprene polymerization process. 3,190,865, 6-22-65, Cl. 260-92.3.
- Miller, Kenneth W., to IIT Research Institute. Flexible worm drive. 3,220,278, 11-30-65, Cl. 74-425.
- Miller, L. C., Co.: See—
- Smith, Donald E. 3,194,938.
- Miller, Larkin J. Combine. 3,193,995, 7-18-65, Cl. 56-21.
- Miller, Lawrence E. Castered clamp. 3,170,708, 2-23-65, Cl. 280-47.32.
- Miller, Lawrence E. and E. D., to C. R. Miller. Electric iron with timer and ironing board and cabinet therefor. 3,185,278, 5-25-65, Cl. 194-1.
- Miller, Lawrence F., and J. O. Thorshelm, to Honeywell Inc. Pressure control system. 3,180,763, 4-27-65, Cl. 136-86.
- Miller, Lee A.: See—
- Butler, John M., Miller, and Wesp. 3,201,370.
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- Miller, Lee A., to Monsanto Co. Haloaromatic amides of propiolic acid. 3,210,420, 10-5-65, Cl. 260-562.
- Miller, Lee A., to Monsanto Co. Lower alkyl beta-(1-alkynylcycloalkoxy) acrylate esters. 3,214,459, 10-26-65, Cl. 260-468.
- Miller, Lee A., to Monsanto Co. Carboalkoxyvinyl ethers of a polysaccharide. 3,218,314, 11-16-65, Cl. 260-231.
- Miller, Lee R.: See—
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- Miller, Leo: See—
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- Miller, Leon F., to The Osborn Mfg. Co. Foundry molding machine and method of molding. 3,168,764, 2-9-65, Cl. 22-36.
- Miller, Leon F., W. A. Blower, E. K. Hatch, and R. W. Ellms, to The Osborn Mfg. Co. Jolt-squeeze molding machine with squeeze piston supported on body of hydraulic fluid. 3,205,542, 9-14-65, Cl. 22-45.
- Miller, Leon J., to Pittsburgh Plate Glass Co. Apparatus and method for casting glass. 3,197,297, 7-27-65, Cl. 65-122.
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- Miller, Mary L., and C. E. Raubut, to American Cyanamid Co. Method for producing copolymers of ethylene and t-butyl acrylate. 3,198,776, 8-3-65, Cl. 260-86.7.
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- Miller, Maurice M. Dilator. 3,196,876, 7-27-65, Cl. 128-343.
- Miller, Max W., to Chas. Pfizer & Co., Inc. 2-decarboxamido-2-acetyl-tetracycline derivatives and process. 3,226,441, 12-28-65, Cl. 260-571.
- Miller, Mel. Reed wind instrument. 3,191,481, 6-29-65, Cl. 84-380.
- Miller, Melville A. Handle means for ski poles. 3,179,435, 4-20-65, Cl. 280-1137.
- Miller, Melvin G. Adjustable stirrup for stretch pants. 3,209,370, 10-5-65, Cl. 2-232.
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- Miller, Norman T. Rotary cutter assembly. 3,167,991, 2-2-65, Cl. 82-662.
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- Tulagin, Vsevolod, Coles, and Miller. 3,172,827.
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- Milligan, Neal P., and J. P. Burgess, to Tecumseh Products Co. Low loss thermoelectric heat exchanger. 3,216,205, 11-9-65, Cl. 62-3.
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- Mitchell, Roscoe W., Jr., to Esso Production Research Co. Seismic signal display system. 3,193,838, 7-6-65, Cl. 346-110.
- Mitchell, Samuel L., to Mitchell Bros., Inc. Cloth spreader necessary for sewing machine. 3,165,311, 1-12-65, Cl. 270-79.
- Mitchell, Thomas J., and R. J. Tracy, to Pitney-Bowes, Inc. Roll guide means for sheet handling devices. 3,176,980, 4-6-65, Cl. 271-52.
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- Nashold, Robert W., Baldwin, and Mitchell. 3,168,001.
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- Mitchell, Wallace F., to Guenther-Mitchell Co. Safety valve means for protecting against the loss of fluid in a pressurizable fluid system. 3,173,446, 3-16-65, Cl. 137-498.
- Mitchell, Wallace F., to Victor Comptometer Corp. Vehicle suspension system. 3,177,963, 4-13-65, Cl. 180-27.
- Mitchell, Wallace F., to Dacor Corp. Mouthpiece for an underwater breathing device. 3,216,416, 11-9-65, Cl. 128-147.
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- Dahlm, David H., Mitchell, and Sollenberger. 3,218,151.
- Mitchell, William A., H. M. Barnes, and L. T. Kremzner; said Mitchell and Barnes assors. to General Foods Corp. Method of handling gas. 3,217,503, 11-16-65, Cl. 62-48.
- Mitchell, William H., to Thiokol Chemical Corp. Shear slide cushion. 3,200,584, 8-17-65, Cl. 60-35.6.
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- Mittler, Martin A., S. Offerman, R. B. Pittman, and R. A. Rosenberg, to Industrial Electronic Hardware Corp. Multi-layer circuitry with placed bushings. 3,212,049, 10-12-65, Cl. 339-18.
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Mizell, Louis R., C. G. Tewksbury, and J. P. Vitello, to The Gillette Co. Suction operated hair curling apparatus. 3,213,860, 10-26-65, Cl. 132-34.

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Di Leo, Vincent F., and Roden. 3,214,310.

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Modic, Frank J., to General Electric Co. Solventless liquid organopolysiloxane encapsulating compositions. 3,205,283, 9-7-65, Cl. 260-825.

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Hillekl, Edwin J. 3,213,931.
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Plasecki, Thomas A. 3,184,971.
Simpelaar, Clyde S. 3,190,352.
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Modrey, Henry J., to Norco, Inc. Shackle coupling. 3,186,055, 6-1-65, Cl. 24-241.

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Moe, Lowell A., to F. H. Peavey & Co. Reactance test cell. 3,188,538, 6-8-65, Cl. 317-246.

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Moek, Hermann. Recorder. 3,178,986, 4-20-65, Cl. 84-384.

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Morath, Gunther. 3,202,029.

Moeller & Neumann O. H. G., Verwaltungsgesellschaft: See—
Ellen, Franz. 3,216,540.

Moeller, Roger D.: See—
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Moeller, Ronald P., to Goodman Mfg. Co. Adjustable screen cloth stretcher. 3,219,065, 11-23-65, Cl. 140-108.

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Moen, Alfred M. Anti-scald valve assembly. 3,192,939, 7-6-65, Cl. 137-100.

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- Moening, Robert J., to Sylvania Electric Products Inc. Leakage inhibiting supporting structure. 3,223,772, 12-14-65, Cl. 174-17.05.
- Moerens A.G., Maschinenfabrik: See—
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- Moerkens, Jozef C., to North American Philips Co., Inc. Ballast device and circuit for gas discharge lamps. 3,200,290, 8-10-65, Cl. 315-99.
- Moersch, George W., and W. A. Neuklis, to Parke, Davis & Co. Amine compounds and methods for their production. 3,213,116, 10-19-65, Cl. 260-397.4.
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- Moest, Rupert R., to Bell Telephone Laboratories, Inc. Epitaxial growth of binary semiconductors. 3,178,313, 4-13-65, Cl. 117-201.
- Moetz, James R.: See—
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- Moffat, Robert J.: See—
Rubnak, William C., Moffat, and Mondt. 3,181,603.
- Moffat, Robert J., to General Motors Corp. Temperature-compensated regenerator seal. 3,180,402, 4-27-65, Cl. 185-185.
- Moffat, Walter G., and R. Carson, to Rhoads Mine Services Ltd. Method of X-ray spectrographic analysis of a mixture of solid particles and liquid. 3,204,097, 8-31-65, Cl. 250-51.5.
- Moffett, David R.: See—
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- Moffett, Juanita L.: See—
Armstrong, Arthur R. 3,190,035.
- Moffett, Robert B., to The Upjohn Co. Pyridylcoumarins. 3,201,406, 8-17-65, Cl. 260-295.
- Moffitt, Merritt L., Jr. Flag holder. 3,183,886, 5-18-65, Cl. 116-173.
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- Moffitt, Roy M. Co., The: See—
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- Mogayzel, William W., to Draper Corp. Loom shuttle. 3,181,572, 5-4-65, Cl. 139-207.
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- Mogilner, George S. Diathermy machine. 3,183,912, 5-18-65, Cl. 128-421.
- Mogk, Karl J., S. P. Nordling, C. A. Ramsel, and G. D. Rohweder, to Caterpillar Tractor Co. Fluid-actuated rotating clutch. 3,217,851, 11-16-65, Cl. 192-85.
- Mogolis, Bruce W., to Bruce Machining & Engineering, Inc. Stock handling apparatus. 3,203,608, 8-31-65, Cl. 226-124.
- Mohan, Raam R.: See—
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- Mohan, William L., Jr.: See—
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- Mohan, William L., Jr., to Chicago Aerial Industries, Inc. Flight path modulator. 3,215,053, 11-2-65, Cl. 95-12.5.
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- Mohaupt, Henry H., to Petroleum Tool Research, Inc. Method of stimulating well production by explosive-induced hydraulic fracturing of productive formation. 3,174,545, 8-23-65, Cl. 166-38.
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- Mohler, Lucien L.: See—
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- Mohl, Fred W. Game board for solitaire. 3,224,780, 12-21-65, Cl. 273-148.
- Mohlan, John W., and E. L. Ghormley, to Struthers Scientific and International Corp. Heated weir in a refrigeration tank. 3,205,672, 9-14-65, Cl. 62-58.
- Mohler, Donald, J. H. Westbrook, and A. L. Jenny, to General Electric Co. Electrical capacitor and titanium-containing electrode material therefor. 3,182,235, 5-4-65, Cl. 317-230.
- Mohler, Donald, and W. E. Tragert, to General Electric Co. Electrical capacitor and tantalum-containing electrode material therefor. 3,223,899, 12-14-65, Cl. 317-230.
- Mohler, Harry G. Carton with integral spout. 3,184,137, 5-18-65, Cl. 229-17.
- Mohler, Richard E., to Edmont Inc. Gloves and methods of construction. 3,173,150, 3-16-65, Cl. 2-167.
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- Mohney, Franklin W., to The Singer Co. Sewing machine stands with electric switch box. 3,226,174, 12-28-65, Cl. 312-253.
- Mohnkern, Gerald L., to United States of America, Army. Optical polarity indicator for magnetically recorded signals. 3,181,059, 4-27-65, Cl. 324-38.
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- Mohr, Harvey O., to Schlumberger Well Surveying Corp. Core taker devices. 3,220,491, 11-30-65, Cl. 175-4.
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- Mohr, Jürgen, to Olympia-Werke A.G. Reel. 3,211,392, 10-12-65, Cl. 242-71.8.
- Mohr, Karl, to Ultra-Präzisionswerk G.m.b.H. Rotary electric cable coupling. 3,195,094, 7-13-65, Cl. 339-8.
- Mohr, Milton E., to Bell Telephone Laboratories, Inc. Signal transmission with secrecy. 3,188,390, 6-8-65, Cl. 179-1.5.
- Mohr, Milton E., to Bell Telephone Laboratories, Inc. Impulse-producing circuit. 3,223,931, 12-14-65, Cl. 328-154.
- Mohr, Robert G., to Brunswick Corp. Leg and chassis structure. 3,219,403, 11-23-65, Cl. 312-255.
- Mohr, William C., to Shenango China, Inc. Method and apparatus for dry-pressing ceramic object. 3,173,974, 3-16-65, Cl. 264-40.
- Mohrbacher, Richard J., to McNeil Laboratories, Inc. Certain oxopropyl hydroxyspiro indan-indolizines. 3,189,611, 6-15-65, Cl. 260-294.7.
- Möhring, Günter: See—
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- Mohs, Bruce B. Sidecar for a bicycle. 3,188,732, 6-1-65, Cl. 280-203.
- Molo, Anthony. Cake box. 3,212,696, 10-19-65, Cl. 229-23.
- Molroux, Auguste: See—
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- Molroux, Auguste, and E. Salel, to Société d'Etudes et de Participations Eau, Gaz, Electricité, Energie S.A. Starting device for autogenerators. 3,203,164, 8-31-65, Cl. 60-14.
- Molse, Robert B. Button device. 3,186,050, 6-1-65, Cl. 24-105.
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- Mojonier, Albert, Inc.: See—
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- Mojonier, Albert B., to Albert Mojonier, Inc. Method and apparatus for molding plastic articles. 3,172,927, 3-9-65, Cl. 264-92.
- Mojonier, Albert B., to Albert Mojonier, Inc. Container with spout, handle and a depression in its bottom wall for stacking. 3,176,879, 4-6-65, Cl. 222-143.
- Mojonier, Albert B. Method of making bag structure. 3,188,925, 6-15-65, Cl. 93-25.
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Hayden, Eugene L., and Witt. 3,167,098.
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- Moklebust, Olav, to R-N Corp. Rotary kiln processing of chemically reactive materials. 3,170,786, 2-23-65, Cl. 75-34.
- Moklebust, Olav, to R-N Corp. Integrated charring and ore reduction apparatus. 3,180,631, 4-27-65, Cl. 263-32.
- Mokrytzki, Boris, and R. A. Stuart, to Westinghouse Electric Corp. Controlled frequency static inverter. 3,210,690, 10-5-65, Cl. 331-113.
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- Molander, Charles W. Method of producing a bacteriological insecticide. 3,190,811, 6-22-65, Cl. 195-96.
- Molander, Gustav E.: See—
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- Moldenhauer, Erwin F. Incinerator. 3,168,063, 2-2-65, Cl. 110-18.
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- Mole, Philip J. Illuminating device for producing varied color effect. 3,179,791, 4-20-65, Cl. 240-10.1.
- Molella, Filbert A. Method of and apparatus for fabricating metallic strips. 3,222,908, 12-14-65, Cl. 72-299.
- Molen, Orbin C. Methods of applying decorative strips to tire sidewalls. 3,218,208, 11-16-65, Cl. 156-116.
- Moler, Charles C., to Overhead Door Corp. Lock means for vertical slidable doors. 3,187,526, 6-8-65, Cl. 70-100.
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- Mollano, Bernard J. Hanger ornament. 3,223,373, 12-14-65, Cl. 248-339.
- Mollins, Douglas F., to Acme Mfg. Co., Inc. Cutter drive for vegetable juicing machine. 3,165,132, 1-12-65, Cl. 146-76.
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- Mollino, Ottavio. Ski binding. 3,168,326, 2-2-65, Cl. 280-11.35.
- Mollins, Desmond W., to Mollins Machine Co., Ltd. Apparatus for feeding cigarettes. 3,185,284, 5-25-65, Cl. 198-20.
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- Mollins, Desmond W., and T. Rowlands, to Mollins Machine Co. Ltd. Apparatus for handling rod-like articles such as cigarettes. 3,166,179, 1-19-65, Cl. 198-34.
- Mollins, Desmond W., and H. A. Stone, to Mollins Machine Co. Ltd. Apparatus for transferring rod-like articles. 3,198,350, 8-3-65, Cl. 214-6.
- Mollins, Desmond W., D. T. N. Williamson, and F. A. M. Labbe, to The Mollins Organisation Ltd. Winding apparatus for a continuous rod cigarette-making machine. 3,209,762, 10-5-65, Cl. 131-110.
- Mollins Machine Co. Ltd.: See—
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- Mollitor, Arvid A. Rotary solenoid having a stepped output. 3,164,732, 1-5-65, Cl. 310-37.
- Mollitor, David A. Rotary solenoid. 3,164,733, 1-5-65, Cl. 310-37.
- Mollitor, Victor D. Mixed drink dispenser with separate pump for each ingredient. 3,207,876, 9-21-65, Cl. 222-129.3.
- Mollitorisz, Joseph, to Michigan State University. Hay wafer forming machine. 3,191,366, 6-29-65, Cl. 56-1.
- Moll, Charles J., Jr.: See—
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- Moll, Jack E., to Miller Tilt-Top Trailer, Inc. Pivotal platform trailer. 3,198,365, 8-3-65, Cl. 214-505.
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- Moll, Wayne E.: See—
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- Molla Inc.: See—
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- Mollard, Paul, to Société d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process of agglomerating fine crystals and cryolite product. 3,215,493, 11-2-65, Cl. 23-88.
- Mollard, Paul, and G. Turpin, to Société d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Process for recovering fluorine. 3,198,600, 8-3-65, Cl. 23-88.
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- Mollenstedt, Gottfried, to Trub, Tanber & Co. A.G. Electron emission microscope with means to expose the specimen to ion and electron beams. 3,219,817, 11-23-65, Cl. 250-49.5.
- Moller, Bynum W. Trailer-garage for golf buggies. 3,180,510, 4-27-65, Cl. 214-506.
- Moller, Frederik A., C. Kool, H. Martinus, and H. Kliphuis, to W. A. Scholten's Chemische Fabriek N.V. Water-in-oil emulsions. 3,206,410, 9-14-65, Cl. 252-309.
- Moller, Gustav H.: See—
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- Moller, Jens R. L.: See—
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- Moller, Jens R. L., to Reynolds Metals Co. Thin metal sheet tapered receptacles and method and apparatus for producing the same. 3,182,482, 5-11-65, Cl. 72-350.
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- Moller, Waldemar. Device for the control of flying craft. 3,220,672, 11-30-65, Cl. 244-77.
- Mollica, Guido: See—
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- Mollinga, Thomas, to Burroughs Corp. Voltage level sensing circuit. 3,214,608, 10-26-65, Cl. 307-88.5.
- Mollinga, Thomas, to Burroughs Corp. Wide band amplifier with adjustable D.C. output level. 3,214,706, 10-26-65, Cl. 330-22.
- Mollinga, Thomas, to Burroughs Corp. Signal converter. 3,218,444, 11-16-65, Cl. 235-183.
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- Molly, Hans. Hydraulic machine of axial piston type. 3,175,363, 3-30-65, Cl. 60-53.
- Molly, Hans. Cycloidal pump. 3,175,504, 3-30-65, Cl. 103-130.
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- Moore, Coleman B., to Moore Products Co. Control apparatus. 3,177,888, 4-13-65, Cl. 137-81.5.
- Moore, Coleman B., to Moore Products Co. Boat steering apparatus. 3,206,928, 9-21-65, Cl. 60-35.54.
- Moore, Curtis L., to Westinghouse Electric Corp. Magnetic core structures. 3,189,858, 6-15-65, Cl. 336-212.
- Moore, Curtis L., to Westinghouse Electric Corp. Cooling ducts for wound coils. 3,195,085, 7-13-65, Cl. 336-60.
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- Moore, David W., to Lear Siegler, Inc. Memory for X-Y plotter. 3,206,638, 9-14-65, Cl. 315-161.
- Moore, Donald A., to Davidson Rubber Co., Inc. Method of mold temperature control. 3,190,944, 6-22-65, Cl. 264-45.
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- Moore, George A. Unit premeasure dispenser for containers. 3,187,961, 6-8-65, Cl. 222-346.
- Moore, George A. Closure construction for containers. 3,191,847, 6-29-65, Cl. 229-37.
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- Moore, Gordon E., to Fairchild Camera and Instrument Corp. Fabricating semiconductor devices. 3,212,162, 10-19-65, Cl. 29-25.3.
- Moore, Harold C. Collapsible shelving. 3,186,363, 6-1-65, Cl. 108-114.
- Moore, Harold C. Measuring device. 3,196,548, 7-27-65, Cl. 33-169.
- Moore, Harold F. Hair curler with telescoping hair clamping stem. 3,205,901, 9-14-65, Cl. 132-40.
- Moore, Harold R., to Westinghouse Electric Corp. Transposed winding for electrical apparatus. 3,183,465, 5-11-65, Cl. 336-187.
- Moore, Harrington, and A. G. Engel, to George W. Moore, Inc. Method of making frictional locking setscrews. 3,181,185, 5-4-65, Cl. 10-10.
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- Moore, Harry W. Winding machine. 3,189,059, 6-15-65, Cl. 140-92.1.
- Moore, Harry W. Method of winding armatures. 3,191,269, 6-29-65, Cl. 29-155.53.
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- Moore, Harry W. Automatic stator winding machine and process. 3,192,961, 7-6-65, Cl. 140-92.1.
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- Moore, James G., to Blaw-Knox Co. Apparatus for making paste flakes. 3,203,109, 8-31-65, Cl. 34-62.
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- Morel, Frans A. M., and J. J. Vlach, to Laboratory For Electronics, Inc. X-ray examining table with detachable fluoroscopic tunnel tower. 3,166,671, 1-19-65, Cl. 250-91.
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- Morelock, O. James. Portable apparatus for testing vacuum tubes. 3,202,911, 8-24-65, Cl. 324-23.
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- Morena, Carmen G. Dispensing package with sliding trap chamber. 3,201,008, 8-17-65, Cl. 222-361.
- Moreno, Antonio A. Foldable easy chair. 3,195,954, 7-20-65, Cl. 297-441.
- Moreno, Emil F., E. A. Domes, and J. F. Marquardt, to International Harvester Co. Vehicle suspension means. 3,175,819, 3-30-65, Cl. 267-56.
- Moreno, Emil F., J. F. Marquardt, and E. A. Domes, to International Harvester Co. Fluid power steering system. 3,189,119, 6-15-65, Cl. 180-79,2.
- Moreo, Frank R.: See—
Baum, Morton E., and Moreo. 3,215,534.
- Moresi, Joseph A., Jr., and R. D. Bolsjolie, to Sprague Electric Co. Vented electrolytic unit. 3,204,156, 8-31-65, Cl. 317-230.
- Moresse, Georges, and R. Dechet, to Normacem S.A. Axial air gap machines. 3,169,204, 2-9-65, Cl. 310-268.
- Moresse, Georges, and R. Dechet, to Normacem S.A. Rotary electrical machine having disk type rotor and layer of polymerized tetrafluoroethylene on field pole surfaces. 3,179,831, 4-20-65, Cl. 310-268.
- Moresse, Georges, and R. Dechet, to Compagnie Electro-Mecanique. Electrical machine having lamellar windings and planar axial air gap. 3,193,715, 7-6-65, Cl. 310-268.
- Moret, Michel, to Aesup, Etablissements. Electric hand appliances, particularly toothbrushes. 3,181,188, 5-4-65, Cl. 15-22.
- Moreton, Douglas A., to Bemose & Sons Ltd. Cartons or boxes. 3,193,175, 7-6-65, Cl. 229-31.
- Moretta, Marcella S.: See—
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- Moretti, Alberto, to Eternit Societa' per Azioni. Pipe joint spacer member. 3,179,445, 4-20-65, Cl. 285-106.
- Moretti, Daniel: See—
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- Moretti, Giorgio, and A. Turchi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Method of preparing organo beryllium halides. 3,196,187, 7-20-65, Cl. 260-665.
- Moretti, William G., Jr.: See—
Neuendorf, Charles A., and Moretti. 3,200,642.
- Morewitz, Harry A.: See—
Eggen, Donald T., and Morewitz. 3,177,124.
- Morey, Everett D., to General Electric Co. Adjustable pressure responsive control means. 3,187,137, 6-1-65, Cl. 200-83.
- Morey, Everett D., and J. Bochan, to General Electric Co. Filter pan particularly suited for use in clothes washers and the like. 3,197,981, 8-3-65, Cl. 68-18.
- Morey, George W., to Anaconda Wire and Cable Co. Electrical insulating glass composition and apparatus encapsulated therewith. 3,223,553, 12-14-65, Cl. 117-215.
- Morey, Glen H., to Templeton Coal Co. Safety shield for electric heating mantle. 3,177,343, 4-6-65, Cl. 219-433.
- Morey, Glen H., to Templeton Coal Co. Shielded electric heating mantle. 3,177,344, 4-6-65, Cl. 219-433.
- Morey, Glen H., to Templeton Coal Co. Apparatus for heating corrosive liquids. 3,179,779, 4-20-65, Cl. 219-10,49.
- Morey, Richard K.: See—
Morey, Willis R., and R. K. 3,210,134.
- Morey, Willis R., and R. K. Portable adjustable assembly for pressure drilling. 3,210,134, 10-5-65, Cl. 308-4.
- Morey, Woodruff A., to Whiting Corp. Vacuum gripping pad. 3,195,941, 7-20-65, Cl. 294-64.
- Morford, Marvin A. Garden hose support and retrieving means. 3,175,574, 3-30-65, Cl. 137-355,26.
- Morgan, A. Henry, W. D. Uhl, and H. R. Angel, to Electronic Controls, Inc. Electrical switch device. 3,226,508, 12-28-65, Cl. 200-104.
- Morgan Adhesives Co.: See—
Morgan, Burton D. 3,174,888.
- Morgan, Burton D. 3,192,100.
- Morgan, Anne L. Back bend stretcher. 3,178,180, 4-13-65, Cl. 272-57.
- Morgan, Arthur I., Jr., and S. Schwimmer, to United States of America, Agriculture. Preparation of dehydrated food products. 3,170,803, 2-23-65, Cl. 99-199.
- Morgan, Arthur T.: See—
Rathke, Arlan E., and Morgan. 3,169,857.
- Morgan Associates: See—
Morgan, Harry A., Jr. 3,190,760.
- Morgan Automation, Inc.: See—
Gardner, John J. 3,182,820.
- Morgan, Burton D., to Morgan Adhesives Co. Method of labeling articles. 3,174,888, 3-23-65, Cl. 156-230.
- Morgan, Burton D., to Morgan Adhesives Co. Flexible curl-free laminate with pressure sensitive adhesive backing. 3,192,100, 6-29-65, Cl. 161-165.
- Morgan Construction Co.: See—
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- Hill, William J. 3,194,045.
- Hill, William J. 3,199,311.
- Hill, William J. 3,222,901.
- Hill, William J. 3,222,970.
- Hill, William J. 3,223,345.
- Hitchcock, John H. 3,222,965.
- Kinnicutt, Roger, Jr., and Stauble. 3,181,709.
- Melivried, Edwin J. 3,187,529.
- Melivried, Edwin J., Jr. 3,177,690.
- McLean, David W. 3,195,444.
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- Morgan, Myles. 3,204,940.
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- Morgan, Myles, and Rich. 3,172,314.
- Rich, Charles A., Jr., Klusmier, and Holbrook. 3,225,202.
- Smith, Paul E. 3,189,338.
- Webber, John J. 3,184,223.
- Webber, John J. 3,223,135.
- Wilson, Norman A. 3,165,020.
- Wilson, Norman A. 3,212,309.
- Morgan, Cyril O. B., to Love, Marden and Wilson Ltd. Valve with supplemental repair check valve. 3,203,443, 8-31-65, Cl. 187-329,3.
- Morgan, David A.: See—
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- Morgan, David A., to Minnesota Mining and Mfg. Co. Developer. 3,165,456, 1-12-65, Cl. 204-18.
- Morgan, David L., to Robertshaw Controls Co. Pressure responsive device with overpressure protection. 3,183,672, 5-18-65, Cl. 60-54,5.
- Morgan, David L., to Robertshaw Controls Co. Power element assembly. 3,223,001, 12-14-65, Cl. 92-91.
- Morgan, David L., and R. L. Ratliff, to Robertshaw Controls Co. Air volume control in water well systems. 3,207,076, 9-21-65, Cl. 103-6.
- Morgan, Donald E.: See—
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- Morgan, Edgar O.: See—
Bacon, Karl W., and Morgan. 3,167,024.
- Morgan, Edward A. Combination ice machine and remote drink dispenser. 3,224,641, 12-21-65, Cl. 222-129,1.
- Morgan, Eldon L. Fence engaging device. 3,184,198, 5-18-65, Cl. 248-223.
- Morgan Engineering Co., The: See—
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- Morgan, Erving B.: See—
Machielse, Jan, Morgan, and Swider. 3,173,708.
- Morgan, Frank A., III: See—
Graham, John W., Kerver, and Morgan. 3,167,123.
- Morgan, Fred K.: See—
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- Morgan, George B.: See—
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- Morgan, Gerard E., to John T. Riddle Inc. Jaw protector. 3,216,023, 11-9-65, Cl. 2-9.
- Morgan, Guy E.: See—
Brainerd, Alfred G., Jr., and Morgan. 3,164,456.
- Morgan, Harold R.: See—
Egler, Vernon C., and Morgan. 3,167,895.
- Morgan, Harry A., Jr., 5% to L. Hocker, 5% to A. S. Lapin, and 77% to Morgan Associates. Milk food product and method for making same. 3,190,760, 6-22-65, Cl. 99-201.
- Morgan, Harry C.: See—
Klein, Martin L., Morgan, and Rush. 3,197,759.
- Klein, Martin L., Morgan, and Rush. 3,214,693.
- Morgan, Harry C., to North American Aviation, Inc. Clamping circuit. 3,164,776, 1-5-65, Cl. 828-98.

- Morgan, Jack F., and W. C. Simmons, to General Aniline & Film Corp. Method of preparing quinazolones. 3,213,094, 10-19-65, Cl. 260-251.
- Morgan, James A., and F. M. Oran, to Industrial Acoustics Co., Inc. Aerodynamic coupling for jet noise suppressors. 3,195,678, 7-20-65, Cl. 181-33.
- Morgan, James F. Bobbin guide. 3,207,187, 9-21-65, Cl. 139-255.
- Morgan, John F.: See—
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- Gray, Charles E., Morgan, and O'Neal. 3,184,889.
- Morgan, John R. Vacuum deposition means and methods for manufacture of electronic components. 3,206,322, 9-14-65, Cl. 117-4.
- Morgan, John W., and D. R. Scott, to Sunbeam Corp. Fastening means for attachments to clock housings. 3,220,176, 11-30-65, Cl. 58-53.
- Morgan, Layton D., and R. D. Strait, to United States of America, Navy. Resistive phase compensator. 3,192,525, 6-29-65, Cl. 343-100.
- Morgan, Leslie B.: See—
Guest, Dorothy J., Morgan, and Owen. 3,166,436.
- Morgan, Mark (by Kearney and Trecker Corp., assignee). Automatic machine tool. Re. 25,812, 6-29-65, Cl. 17-4.
- Morgan, Merle L., to Electro-Measurements, Inc. Voltage divider. 3,164,798, 1-5-65, Cl. 338-174.
- Morgan, Myles, to Morgan Construction Co. Apparatus for cooling hot metal rod in a laying reel. 3,204,940, 9-7-65, Cl. 266-5.
- Morgan, Myles, and C. A. Rich, Jr., to Morgan Construction Co. Roll adjustment means. 3,172,314, 3-9-65, Cl. 80-56.
- Morgan, Myles, and W. J. Hill, to Morgan Construction Co. Apparatus for and method of collecting and dividing rod into bundles. 3,176,385, 4-6-65, Cl. 29-417.
- Morgan, Raymond E., to General Electric Co. Synchronization and lockout control system for controlled rectifiers. 3,164,767, 1-5-65, Cl. 321-35.
- Morgan, Raymond E., to General Electric Co. Tunnel diode-saturable reactor control circuit. 3,214,604, 10-26-65, Cl. 307-88,5.
- Morgan, Robert C. Fishing tackle. 3,174,247, 3-23-65, Cl. 43-15.
- Morgan, Thomas P. Holder for pencils, pens and similar long articles. 3,212,146, 10-19-65, Cl. 24-10.
- Morgan, Walter A., to Esso Research and Engineering Co. Remotely controlled modulating system. 3,174,110, 3-16-65, Cl. 330-10.
- Morgan, Walter A., to Esso Research and Engineering Co. Automatic limit control apparatus. 3,219,847, 11-23-65, Cl. 307-116.
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- Morgan, Willard L., to Owens-Corning Fiberglass Corp. Reinforcement of metal. 3,187,422, 6-8-65, Cl. 29-419.
- Morgan, Willard L., and L. F. Scheffer, to Owens-Corning Fiberglass Corp. Separation of crystals from a boric anhydride matrix. 3,224,843, 12-21-65, Cl. 23-299.
- Morgan, William A., R. J. McClure, and D. E. C. King, to Canada, Her Majesty the Queen in right of, as represented by the Minister of Mines and Technical Surveys. Stabilization of chromium nickel stainless steels. 3,203,789, 8-31-65, Cl. 75-130,5.
- Morgan, William C., and M. A. Picciano, to General Precision, Inc. Explosive device containing charge of elongated crystals and an exploding bridgewire. 3,181,463, 5-4-65, Cl. 102-28.
- Morgan, William E., Jr., to Sperry Rand Corp. Automatic frequency control system with local oscillator controlled by sweep search generator. 3,174,105, 3-16-65, Cl. 325-420.
- Morgan, William F.: See—
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- Morgan, William H., Jr., to Sylvania Electric Products Inc. Lamp positioner. 3,200,363, 8-10-65, Cl. 339-93.
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- Morgenthaler, Frederic R.: See—
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- Mori, Leo, I. Nlkura, and T. Ishida, to Tokyo Shibaura Electric Co., Ltd. Rotary shaft control system. 3,165,939, 1-19-65, Cl. 74-365.
- Mori, Leo, and I. Nlkura, to Tokyo Shibaura Electric Co., Ltd. Digital converter of photometric value. 3,209,642, 10-5-65, Cl. 88-14.
- Mori, Orlando, to Soc. Toscana Industria Cucine Elettrodomestici (S.T.I.C.E.) S.p.A. Method of washing dishes and the like. 3,183,120, 5-11-65, Cl. 134-7.
- Mori, Ryutaro, and A. Kurabayashi, to Hitachi Ltd. Differential pressure transducers. 3,224,020, 12-21-65, Cl. 91-185.
- Mori, Ryutaro, M. Nishimura, and K. Furukawa, to Kabushiki Kaisha Hitachi Seisakusho. Variable speed-reduction mechanism. 3,224,286, 12-21-65, Cl. 74-199.
- Mori, Takeshi: See—
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- Mori, Takeshi, to Christensen Diamond Products Co. Rotary drag bit. 3,220,497, 11-30-65, Cl. 175-411.
- Mori, Takeshi, to Christensen Diamond Products Co. Replaceable drill bit nozzles. 3,220,754, 11-30-65, Cl. 285-305.
- Moriguchi, Yoshio, to Nippon Electric Co. Ltd. Compound foil for connecting electrodes to semiconductor material. 3,177,054, 4-6-65, Cl. 29-199.
- Morikawa, Takashi, K. Aoki, N. Arita, and M. Matano, to Daiwa Boseki Kabushiki Kaisha. Apparatus for delivering fiber material coming out of a blowing machine to carding engines. 3,210,128, 10-5-65, Cl. 302-28.
- Morimoto, Izumi, and H. Nakayama. Metal-arc welding. 3,215,809, 11-2-65, Cl. 219-73.
- Morimoto, Tatsuo. Apparatus for draining underground strata. 3,215,213, 11-2-65, Cl. 175-314.
- Morin, Duane E., to Minnesota Mining and Mfg. Co. Decyclization of fluorinated cyclic ethers. 3,213,134, 10-19-65, Cl. 260-544.
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- Morin, Lawrence. Automobile swerve alarm system. 8,201,750, 8-17-65, Cl. 340-52.
- Morin, Lawrence J. Safety brake combination for pneumatic drills. 3,193,055, 7-6-65, Cl. 188-96.
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- Morin, Louis H., 1/4 to M. F. McGill, and 1/4 to J. R. Hanna. Method of producing weedless fish hooks. 3,169,299, 2-16-65, Cl. 29-9.
- Morin, Louis H., 1/4 to M. F. McGill, and 1/4 to J. R. Hanna. Weedless fish hooks. 3,169,338, 2-16-65, Cl. 43-43,6.
- Morin, Louis H., 1/4 to M. F. McGill, and 1/4 to J. R. Hanna. Looped snell for fish hooks. 3,169,340, 2-16-65, Cl. 43-44,98.
- Morin, Louis H. Speed reducer. 3,169,414, 2-16-65, Cl. 74-802.
- Morin, Louis H. Slide fastener stop. 3,170,207, 2-23-65, Cl. 24-205,11.
- Morin, Louis H. Dual slider stop. 3,175,268, 3-30-65, Cl. 24-205,11.
- Morin, Louis H., to Coats & Clark Inc. Apparatus for controlling tape feed in regulating variable spacings between groups of scoops. 3,178,772, 4-20-65, Cl. 18-30.
- Morin, Louis H. Die casting machine gooseneck using air injection with controlled volume accumulator chamber. 3,179,295, 4-20-65, Cl. 22-69.
- Morin, Louis H. Lock slider. 3,186,053, 6-1-65, Cl. 24-205,14.
- Morin, Louis H. Method of producing multiple intercast plastic products. 3,187,072, 6-1-65, Cl. 264-242.
- Morin, Louis H., to Coats & Clark Inc. Method and apparatus for producing travelers with wear resistant inserts. 3,187,074, 6-1-65, Cl. 264-275.
- Morin, Louis H. Cast chain and method of producing the same. 3,191,376, 6-29-65, Cl. 59-1.
- Morin, Louis H. Method of forming three cast-united and relatively movable elements. 3,197,535, 7-27-65, Cl. 264-242.
- Morin, Louis H. Method of casting and trimming sliders in multiple, utilizing unitary bifurcated cores. 3,205,570, 9-14-65, Cl. 29-409.
- Morin, Louis H., to Coats & Clark Inc. Spinning ring. 3,205,646, 9-14-65, Cl. 57-119.
- Morin, Louis H. Separator box and pin. 3,214,817, 11-2-65, Cl. 24-205,11.
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- Morin, Robert B., E. H. Flynn, B. G. Jackson, and R. W. Roeske, to Eli Lilly and Co. Process for the preparation of 7-aminoccephalosporanic acids. 3,188,311, 6-8-65, Cl. 260-243.
- Morin, William T., Jr., to Honeywell Inc. Condition responsive devices. 3,170,860, 2-23-65, Cl. 204-195.
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Morita, Masasuke, and T. Kuroda, to Nippon Electric Co. Ltd. Switchover arrangement in a mobile radio communication system. 3,189,822, 6-15-65, Cl. 325-4.

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Moriya, Saburo M. Magnet assembly for filtering. 3,206,657, 9-14-65, Cl. 317-201.

Moriyama, Hiromi, H. Yamada, T. Nakanishi, and T. Kiriyama, to Kabushiki Kaisha Hitachi Selsakusho, and Kelhin Hitachi Engineering Kabushiki Kaisha. Gas-filled enclosed electric switchgear with copper contacts. 3,222,486, 12-7-65, Cl. 200-166.

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Moro, Antonio. Thermally controlled electrical switch having motion-amplifying lever means. 3,223,806, 12-14-65, Cl. 200-138.

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Morohi, Rolf, P. Kisteneich, and P. J. Breuer, to Collo-Rhelnollium, Koln GmbH Werk Hersel. Applicator cover for container. 3,221,359, 12-7-65, Cl. 15-517.

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Morphis, Oscar L. Liquid containers. 3,182,881, 5-11-65, Cl. 220-3.1.

Morph Research Corp.: See—
Buckner, Jewell A. 3,185,330.

Morph Research, Inc.: See—
York, Orin R., and Waiser. 3,166,922.

Morpurgo, Fulvio. Tea bags and apparatus for use in their manufacture. 3,191,355, 6-29-65, Cl. 53-134.

Morreale, Joseph. Fount serator. 3,224,683, 12-21-65, Cl. 239-456.

Morrel, John S., to The Bendix Corp. Aircraft collision warning system. 3,208,064, 9-21-65, Cl. 343-6.

Morrel, John S., A. I. Perlin, M. Taylor, W. H. Stotz, and M. E. Olmstead, to The Bendix Corp. Collision avoidance system. 3,181,144, 4-27-65, Cl. 343-7.

Morrell, Albert M., to Radio Corp. of America. Color display system utilizing biasing means to reduce the effect of misconvergence. 3,215,771, 11-2-65, Cl. 178-5.4.

Morrell, Jacques C. Catalyst and process of making the same. 3,170,885, 2-23-65, Cl. 252-435.

Morrell, Jacques C. Phosphorus containing polymerization catalyst with hydrated gel additive. 3,213,035, 10-19-65, Cl. 252-435.

Morrell, Jacques C. Phosphorus containing polymerization catalyst. 3,213,036, 10-19-65, Cl. 252-435.

Morrell, James N. Automatic regrounding valve apparatus. 3,220,431, 11-30-65, Cl. 137-243.6.

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Brown, William L., Denny, and Schmucker. 3,207,608.

Morrell, John H. Parachute spotting device. 3,193,931, 7-13-65, Cl. 33-46.

Morren, Henri, to UCB (Union Chimique-Chimische Bedrijven), S.A. Substituted 1-(4-phenyl-butyl)-4-phenyl-piperazine compounds. 3,211,734, 10-12-65, Cl. 260-268.

Morrell, Harry L., Jr. Auxiliary structure for an automobile seat. 3,185,523, 5-25-65, Cl. 297-226.

Morrell, Philip. Embellished photo-mounts. 3,188,762, 6-15-65, Cl. 40-158.

Morrell, Vaughan, Jr. Pipette. 3,200,650, 8-17-65, Cl. 73-425.6.

Morris, Arthur. Tubular connector having spring retaining means. 3,193,309, 7-6-65, Cl. 285-27.

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Morris, Charles L., Jr., and P. W. Simon, to Allied Chemical Corp. Process for reducing the intrinsic viscosities of chlorinated polymers of Cs to Cs olefins. 3,222,345, 12-7-65, Cl. 260-93.7.

Morris, Charles W., J. R. Ulyate, and L. L. Frazier; said Ulyate and said Frazier assors. to said Morris. Adaptable afterburner. 3,209,531, 10-5-65, Cl. 60-30.

Morris, Charles W., J. R. Ulyate, and L. L. Frazier; said Ulyate and said Frazier assors. to said Morris. Afterburner and muffler device. 3,209,532, 10-5-65, Cl. 60-30.

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Morris, Edward O. Apparatus for spraying the interiors of drum shells. 3,196,826, 7-27-65, Cl. 118-7.

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Bounds, William E., Morris, and Sundstrom. 3,168,256.

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Morris, Frank A., J. D. Confeld, and H. L. Foote, to General Dynamics Corp. Toll ticketing computer. 3,205,309, 9-7-65, Cl. 179-7.1.

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Morris, George F., to General Dynamics Corp. Tacan test equipment. 3,172,107, 3-2-65, Cl. 343-166.

Morris, George F., to General Dynamics Corp. Automatic gain control apparatus for pulse signal handling systems. 3,199,044, 8-3-65, Cl. 330-134.

Morris, George F., to General Dynamics Corp. Ambiguity elimination of directional antenna. 3,206,754, 9-14-65, Cl. 343-117.

Morris, George H. Two section deep tillage cultivator. 3,176,781, 4-6-65, Cl. 172-395.

Morris, George H. Triple section rotary rod weeder. 3,190,363, 6-22-65, Cl. 172-44.

Morris, George V., E. M. Roschke, W. S. Druz, and B. J. Miller, to Zenith Radio Corp. Subscription television system. Re. 25,837, 8-10-65, Cl. 178-5.1.

Morris, Harold D., to Syston-Donner Corp. Switching device. 3,168,680, 2-2-65, Cl. 317-5.

Morris, Harold D., and W. E. Hyde, Jr., to Syston-Donner Corp. Dual acceleration range integrating accelerometer. 3,176,518, 4-6-65, Cl. 73-503.

Morris, Henry, and N. L. Gallon, to General Dynamics Corp. Mechanical coupling device. 3,187,521, 6-8-65, Cl. 64-23.

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Morris, Jack, to American Machine & Foundry Co. Apparatus and method for forming helically welded tubing. 3,201,559, 8-17-65, Cl. 219-62.

Morris, Jack, and W. C. Rudd, to American Machine & Foundry Co. Welding of tubular members. 3,209,117, 9-28-65, Cl. 219-59.

Morris, James E., to General Dynamics Corp. Electrical connector contact crimping tool. 3,172,211, 3-9-65, Cl. 33-181.

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Morris, John, to International Business Machines Corp. Electro-optical plane aligning apparatus. 3,197,643, 7-27-65, Cl. 250-210.

Morris, John C., to Sperry-Rand Corp. Hold-down. 3,212,739, 10-19-65, Cl. 248-25.

Morris, John C., to Sperry Rand Corp. Counterbalanced lever system for typewriters. 3,215,247, 11-2-65, Cl. 197-17.

Morris, John C., to Sperry Rand Corp. Universal bar adjustable to a curved or straight position. 3,215,248, 11-2-65, Cl. 197-17.

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Morris, John M., to Rex Chainbelt, Inc. Method of treating fluidized particles while conveyed. 3,166,383, 1-19-65, Cl. 34-10.

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Morris, John M., and R. W. Evans, to Rex Chainbelt Inc. Vibratory conveyor with shingled deck. 3,195,713, 7-20-65, Cl. 198-220.

Morris, John M., and R. W. Evans, to Rex Chainbelt Inc. Process and apparatus for cooling foundry sand on a vibratory conveyor. 3,205,548, 9-14-65, Cl. 22-68.

Morris, John M., and R. W. Evans, to Rex Chainbelt Inc. Feeder control for batch weighing. 3,216,557, 11-9-65, Cl. 198-220.

Morris, John R., to Hughes Aircraft Co. Programmed digital to analog function generator motor control for an X-Y plotter. 3,217,220, 11-9-65, Cl. 318-162.

Morris, John W., to Preco Inc. Aligning and locking mechanism for load dividers. 3,212,459, 10-19-65, Cl. 105-376.

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Morris, Lowell H., to Morris Mfg. Co. Tent construction. 3,212,512, 10-19-65, Cl. 135-3.

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Morris, Lowell H. 3,212,512.

Morris, Marion H.: See—
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Morris, Marion H., to Sperry-Sun Well Surveying Co. Mercury time delay switch. 3,222,469, 12-7-65, Cl. 200-33.

Morris, Philip, Inc.: See—
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Clarke, Allan B. 3,194,245.
Creamer, Robert M., and Weissbecker. 3,224,900.
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Morris, Philip, Inc.: See—Continued
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Kruger, James B., and Bordeau. 3,204,838.

Kruger, James B., and Bordeau. 3,224,090.

Kruger, James B., and Braginetz. 3,167,207.

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Morris, Rexford M., to Therm-O-Disc, Inc. Probe type thermo-static control having amplified switch actuating means. 3,202,789, 8-24-65, Cl. 200-137.

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Hagmann, Foster M., Graham, and Morris. 3,207,350.

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Morris, Roger E., and J. T. Gregory, to The B. F. Goodrich Co. Antioxidants comprising reaction products of liquid rubbers and aromatic amines and compositions containing same. 3,177,165, 4-6-65, Cl. 260-5.

Morris, Ronald G., to Beaver-Advance Corp. Safety appliance for elevators. 3,220,510, 11-30-65, Cl. 187-86.

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Morris, William J., to Philco Corp. Operation-indicating means for push-button-operated mechanism. 3,169,506, 2-16-65, Cl. 116-124.1.

Morris, William J., and R. C. Simmons, to Philco Corp. Mounting apparatus. 3,215,380, 11-2-65, Cl. 248-27.

Morris, Willis B., and R. M. Kubow, to Northrop Corp. Cockpit enclosure and operating mechanism. 3,194,517, 7-13-65, Cl. 244-121.

Morris, Willis B., and I. Saworotnow, to Northrop Corp. Control system for VTOL vehicles. 3,205,728, 9-14-65, Cl. 74-516.

Morrisett, O. L., and W. E. Hyde, to Halliburton Co. Hydraulic jar. 3,217,817, 11-16-65, Cl. 175-297.

Morrisette, Milton J.: See—
Jess, Thurman S., Morrisette, and Poltras. 3,224,571.

Morrisish, Leonard M., and W. D. Pittsley, to General Motors Corp. Flexible exhaust coupling including a heat dissipable washer. 3,188,115, 6-8-65, Cl. 285-18.

Morrison, Arthur L., deceased, by Kathryn J. Morrison, administratrix. Gas storing and dispensing device. 3,186,407, 6-1-65, Cl. 128-203.

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Morrison, Charles R. W., to Union Carbide Corp. Finish removal formulation. 3,179,609, 4-20-65, Cl. 280-28.

Morrison, Charles S., and H. H. Denison, to Deere & Co. Threshing cylinder in combination with a rotary separating drum. 3,179,111, 4-20-65, Cl. 130-27.

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Morrison, David K., and F. H. Erdman, to U.S. Industries, Inc. Milking device. 3,176,654, 4-6-65, Cl. 119-14.01.

Morrison, Dewey H. Adaptor for scribes. 3,192,629, 7-6-65, Cl. 33-23.

Morrison, Donald C., to Fundamental Research Co. Reactions of 2,3-dinitronaphthalene with carbanions and products resulting therefrom. 3,177,241, 4-6-65, Cl. 260-465.

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Morrison, George H., F. C. Palilla, and W. Zloczower, to General Telephone and Electronics Laboratories, Inc. Method for treating photoconductive cadmium sulfide cell. 3,170,886, 2-23-65, Cl. 252-501.

Morrison, Heber J., to Westinghouse Electric Corp. Impedance matching balun employing a ferrite core. 3,195,076, 7-13-65, Cl. 333-26.

Morrison, Heber J., and J. J. Anderson, to Westinghouse Electric Corp. Phase locked variable frequency oscillator system with sweep circuit. 3,210,684, 10-5-65, Cl. 331-4.

Morrison, Ian H.: See—
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Morrison, Ian Y., to The Pyle-National Co. Explosion-proof floodlight. 3,180,980, 4-27-65, Cl. 240-11.2.

- Morrison-International Corp.: See—
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- Morrison, James C., and L. H. Segall, to The Bendix Corp. Ignition system employing saturable core reset by relaxation oscillator. 3,191,093, 6-22-65, Cl. 315-209.
- Morrison, James L. D. Record changer spindle. 3,214,176, 10-26-65, Cl. 274-10.
- Morrison, James L. D., and M. D. Estowski; said Estowski assor. to V-M Corp. Record changer. 3,201,130, 8-17-65, Cl. 274-10.
- Morrison, James L. D., and M. H. Estowski; said Estowski assor. to V-M Corp. Method and apparatus for recording and reproducing from a magnetic sheet. 3,218,077, 11-16-65, Cl. 274-4.
- Morrison, James P., and J. A. Persson, to Union Carbide Corp. Low frequency induction furnace. 3,180,917, 4-27-65, Cl. 13-27.
- Morrison, John M., to Centriflo Pty. Ltd. Apparatus for exhausting fumes from factories and the like. 3,170,621, 2-23-65, Cl. 230-117.
- Morrison, John O.: See—
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- Morrison, Joseph T., to Cogsdill Tool Products, Inc. Deburring tool. 3,172,310, 3-9-65, Cl. 77-73.5.
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- Morrison Machine Co.: See—
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- Morrison, Patricia A.: See—
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- Morrison, Robert F., Jr., to General Dynamics Corp. Amplitude modulating apparatus. 3,193,828, 7-6-65, Cl. 343-100.
- Morrison, Robert F., Jr., and M. N. Sarachan, to General Dynamics Corp. Digital direction finder utilizing binary array. 3,213,453, 10-19-65, Cl. 343-113.
- Morrison, Robert O., and L. W. Chundelak, Jr. Package edge protector. 3,199,709, 8-10-65, Cl. 217-69.
- Morrison, Robert W., to Westinghouse Electric Corp. Digital position control servosystem. 3,165,680, 1-12-65, Cl. 318-28.
- Morrison, Stanley R., to Honeywell Inc. Semiconductor light position indicators and scanners. 3,210,548, 10-5-65, Cl. 250-211.
- Morrison, Stanley R., to Honeywell Inc. Solid state junction photopotentiometer. 3,222,531, 12-7-65, Cl. 250-211.
- Morrison, Wallace T., and C. A. Stooddy, to Stooddy Co. Method and apparatus for coating welding rods. 3,175,247, 8-30-65, Cl. 18-13.
- Morrison, Wilbert H., and D. W. Williams, to Clevite Corp. Flanged bimetallic bearing. 3,167,404, 1-26-65, Cl. 29-196.2.
- Morrison, Willard L., to Liquefreeze Co., Inc. Method for freezing cooked foods. 3,168,425, 1-19-65, Cl. 99-192.
- Morrison, Willard L., to Elmwood Liquid Products, Inc. Insulated collapsible shipper container. 3,191,793, 6-29-65, Cl. 220-9.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Nuclear reactor fuel element nitrogen fixation. 3,201,322, 8-17-65, Cl. 176-66.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method of shipping frozen food. 3,225,553, 12-28-65, Cl. 62-76.
- Morriss, Francis V.: See—
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- Morriss, James C., Jr., to Smith-Blair, Inc. Band gripping means for pipe clamp having malleable jaws. 3,195,206, 7-20-65, Cl. 24-279.
- Morriss, James C., Jr., and A. D. Owen, to Smith-Blair, Inc. Band attaching means for pipe clamp having malleable jaws. 3,195,205, 7-20-65, Cl. 24-279.
- Morrissey, Joseph W., to Corning Glass Works. Conting thickness measuring device. 3,168,784, 2-9-65, Cl. 33-172.
- Morrissey, William E. Fishing tackle box. 3,201,017, 8-17-65, Cl. 224-26.
- Morrissey, William S., to The Keeney Mfg. Co. Humidifier. 3,209,125, 9-28-65, Cl. 219-272.
- Morrissey, William S., W. D. Teague, Jr., and R. S. Holden, to The Keeney Mfg. Co. Float-type humidifier. 3,209,124, 9-28-65, Cl. 219-272.
- Morrow, Alfred C., and H. S. Barr, Jr., to Pneumafil Corp. Roll clearing. 3,196,478, 7-27-65, Cl. 15-258.52.
- Morrow, Alfred C., and I. L. Smith, to Pneumafil Corp. Multiple roll clearing. 3,200,013, 8-10-65, Cl. 134-6.
- Morrow, Austin G. Deflector and guide means for an endless pick-up conveyor. 3,209,526, 10-5-65, Cl. 56-345.
- Morrow, Duane F., to Parke, Davis & Co. 17 β -amino-17 α -pregnen-20-one compounds and the production thereof. 3,187,022, 6-1-65, Cl. 260-397.3.
- Morrow, Eugene D., and J. E. Maloch. Business forms for use in time-and-amount-controlled credit transactions. 3,216,743, 11-9-65, Cl. 283-68.
- Morrow, George R.: See—
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- Morrow, George W., Jr., and N. B. Sackrisson, to Central Commercial Co. Mineral surfacing granules containing calcined clay. 3,169,075, 2-9-65, Cl. 117-27.
- Morrow, Harry C., to United States Steel Corp. Rubber covered roll. 3,196,701, 7-27-65, Cl. 74-230.7.
- Morrow, Judd: See—
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- Morrow, Robert C. Playground toy and exercising device. 3,186,711, 6-1-65, Cl. 272-85.
- Morrow, Robert S.: See—
Thomas, Glen H., and Morrow. 3,181,350.
Thomas, Glen H., and Morrow. 3,205,713.
- Morrow, Robert S., and G. H. Thomas, to International Research and Development Corp. Continuous vibration monitor device. 3,201,776, 8-17-65, Cl. 340-261.
- Morrow, Scott I., to Thiokol Chemical Corp. Method of making nitrogen fluorides. 3,214,237, 10-26-65, Cl. 23-14.
- Morse Bouglie Inc.: See—
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- Morse Chain Co.: See—
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- Morse, Guy A., Jr., to United States of America, Air Force. Reel lock. 3,179,350, 4-20-65, Cl. 242-68.3.
- Morse Instrument Co., The: See—
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- Morse, James H., to Hughes Aircraft Co. Optical maser system for production of repetitive short pulses of coherent light. 3,178,657, 4-13-65, Cl. 331-94.5.
- Morse, James H., and E. J. Woodbury, to Hughes Aircraft Co. Optical maser system for obtaining short pulses of emitted energy. 3,199,049, 8-3-65, Cl. 331-94.5.
- Morse, John E.: See—
Morse, Paul M. 3,207,425.
- Morse, John F. Single lever control for a throttle and an electrically operated clutch. 3,165,941, 1-19-65, Cl. 74-472.
- Morse, John F. Resilient torsional coupling. 3,199,315, 8-10-65, Cl. 64-27.
- Morse, John F. Steering assembly for outdrive marine propulsion units. 3,202,125, 8-24-65, Cl. 115-35.
- Morse, John F. Single lever control unit for clutch and throttle having a throttle dwell and an auxiliary throttle control. 3,204,732, 9-7-65, Cl. 192-96.
- Morse, John F. Adjustable interlock for auxiliary throttle control. 3,204,733, 9-7-65, Cl. 192-96.
- Morse, John F. Steering and motion transmitting mechanism. 3,208,300, 9-28-65, Cl. 74-498.
- Morse, Lynn H., to Omco, Inc. Method and apparatus for sealing a pipe line. 3,221,758, 12-7-65, Cl. 137-15.
- Morse, Merce M.: See—
Land, Edwin H., and Morse. 3,220,837.
- Morse, Milton. Threaded sealing devices having O-ring recess of asymmetrical configuration. 3,175,454, 3-30-65, Cl. 85-9.
- Morse, Milton. Multi-ribbed sealing device. 3,175,833, 3-30-65, Cl. 277-207.
- Morse, Milton. Manually releasable grounding electrical plug. 3,178,667, 4-13-65, Cl. 339-14.
- Morse, Milton. Wire terminal device having screw guiding means. 3,218,602, 11-16-65, Cl. 339-97.
- Morse, Park L., to American Gilsonite Co. Insulating and corrosion protective material and method of application. Re. 25,757, 4-6-65, Cl. 264-35.
- Morse, Paul M., 33% to J. E. Morse. Rolling body engine with multiple rotors. 3,207,425, 9-21-65, Cl. 230-141.
- Morse, Philip W.: See—
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- Morse, Raymond L.: See—
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Carter, Paul H., Morse, and Marlon. 3,171,367.
Marlon, Thomas E., and Morse. 3,168,216.
- Morse, Robert E. Shot encapsulated gun shell assembly. 3,179,051, 4-20-65, Cl. 102-42.
- Morse, Stanley H., to Primore Sales, Inc. Valve and swivel coupling for refrigeration systems. 3,198,480, 8-3-65, Cl. 251-148.
- Morshauser, Fred S.: See—
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- Morshauser, Fred S., and S. Kalish, to Warner-Lambert Pharmaceutical Co. Multicolored lipstick and preparation thereof. 3,201,314, 8-17-65, Cl. 167-85.
- Morschel, Heinrich, and C. Skopalk, to Farbenfabriken Bayer Aktiengesellschaft. Organic isocyanates. 3,190,905, 6-22-65, Cl. 260-453.
- Morsell, Curtis B., Jr.: See—
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- Morsh Stencil Machine Co.: See—
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- Mortashed, Merle H., to The Harriman Mfg. Co. Flexible dish harrow. 3,181,621, 5-4-65, Cl. 172-455.
- Mortenson, Wallis L., to Container Corp. of America. Collapsible tray. 3,170,615, 2-23-65, Cl. 229-16.

- Mortimer, George A., and L. Boghetich, to Monsanto Co. Low temperature polymerization of ethylene in the presence of an aluminum alkyl compound and oxygen containing compound. 3,198,780, 8-3-65, Cl. 260-94.9.
- Mortimer, Harry T., to North American Aviation, Inc. Magnetic storage device. 3,199,090, 8-3-65, Cl. 340-174.
- Mortimer, Noel R. F., to Vokes Ltd. Pneumatic feeders. 3,174,805, 3-23-65, Cl. 302-28.
- Mortley, Wilfrid S., to The Marconi Co. Ltd. FM pulsed radar with intrapulse range discrimination. 3,188,637, 6-8-65, Cl. 343-17.2.
- Mortley, Wilfrid S., and S. F. Clarke, to The Marconi Co. Ltd. F.M. pulse radar system. 3,196,437, 7-20-65, Cl. 343-17.2.
- Morton, Evans T., to Aqua-Chem, Inc. Liquid level and temperature control. 3,214,933, 11-2-65, Cl. 62-188.
- Morton, Evans T., and L. G. Beckett, to Whirlpool Corp. Refrigerator with hollow cold shelf. 3,169,383, 2-16-65, Cl. 62-419.
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- Morton, Lester C., to National Distillers and Chemical Corp. Valve assembly machine and method for assembling a valve. 3,208,133, 9-28-65, Cl. 29-208.
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- Morway, Arnold J., to Esso Research and Engineering Co. Stabilized oiled coal slurry in water. 3,210,168, 10-5-65, Cl. 44-51.
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- Mueller, Armand G., to Square D Co. Mounting means for semiconductor devices. 3,192,444, 6-29-65, Cl. 317-100.
- Mueller, Arthur C.: See—
- Macomber, Clark C., and Mueller. 3,220,325.
- Mayer, Peter J., Jr., and Mueller. 3,201,798.
- Mueller Brass Co.: See—
- Fueslein, John R., Rader, and Roper. 3,200,984.
- Gray, Robert A., Jr. 3,198,211.
- Rader, Robert R. 3,191,398.
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- Mueller, Charles W., to Radio Corp. of America. Symmetrical power transistor. 3,166,694, 1-19-65, Cl. 317-235.
- Mueller, Charles W., to Radio Corp. of America. Semiconductor devices. 3,208,924, 9-28-65, Cl. 204-143.
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- Larry, Timothy A. 3,170,226.
- Mueller, Frank H. 3,168,280.
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- Mueller, Frank H., and Luckenbill. 3,211,173.
- Mueller, Frank H., and Smith. 3,185,171.
- Mueller, Frank H., and Smith. 3,223,110.
- Mueller, Dave C., to International Business Machines Corp. Matrix of coincidence gates having column and row selection. 3,165,719, 1-12-65, Cl. 340-166.
- Mueller, Edward E., D. B. Bartz, M. J. Christensen, and M. C. Mueller, to Whirl-Air-Flow Corp. Apparatus for injecting bulk solids into material contained in a vessel. 3,199,924, 8-10-65, Cl. 302-36.
- Mueller, Edward G.: See—
- Smith, Horace L., Jr., and Mueller. 3,166,263.

- Mueller, Edwin: See—
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- Mueller, Frank H., to Mueller Co. Rotary plug valve. 3,168,280, 2-2-65, Cl. 251-217.
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- Mueller, Frank H., and J. J. Smith, to Mueller Co. Valving structure for fire hydrant. 3,185,171, 5-25-65, Cl. 137-283.
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- Mueller, Fred S.: See—
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- Mueller, Fritz W. H., and C. B. Roth, to General Aniline & Film Corp. Photopolymerization of vinyl monomers by means of thallium compounds as catalysts. 3,201,255, 8-17-65, Cl. 96-115.
- Mueller, Gustav A., to Union Carbide Corp. Formation of negative electrodes. 3,184,338, 5-18-65, Cl. 136-75.
- Mueller, Gustav A., to Union Carbide Corp. Method for preparing positive electrodes. 3,203,879, 8-31-65, Cl. 204-56.
- Mueller, Heinz E., to Martin-Marietta Corp. Multi-chambered liquid propellant thrust device. 3,224,192, 12-21-65, Cl. 60-35.6.
- Mueller, Herbert: See—
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- Mueller, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of oligomers of 1,3-dienes. 3,167,593, 1-26-65, Cl. 260-666.
- Mueller, Jacob: See—
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- Muller, Jacques. Apparatus for removing a surface layer from a body of liquid. 3,221,884, 12-7-65, Cl. 210-242.
- Muller, Jacques, to Rellumit Inter, S.A.R.L. Cleaning device for fluid filter. 3,221,888, 12-7-65, Cl. 210-333.
- Mueller, Johannes G., to Well-McLain Co., Inc. Sectional boiler construction. 3,215,125, 11-2-65, Cl. 122-225.
- Mueller, John D., and J. D. Russell, to Ethyl Corp. Gaging device for electrolysis cell. 3,208,152, 9-28-65, Cl. 33-180.
- Mueller, John H.: See—
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- Mueller, John J., and W. Seetoo, to Martin-Marietta Corp. Hot press fabrication of thermoelectric elements. 3,201,235, 8-17-65, Cl. 75-201.
- Mueller, Klaus P., to Robertshaw Controls Co. Pressure actuated control device. 3,181,425, 5-4-65, Cl. 91-25.
- Mueller, Lawrence E., to Burroughs Corp. Machine for cutting, forming and inserting leads of electrical components.
- Mueller, Manfred, and W. Schulz, to Agfa Aktiengesellschaft. Automatic camera with self-timer. 3,198,099, 8-3-65, Cl. 95-53.3.
- Mueller, Manfred, and W. Schulz, to Agfa Aktiengesellschaft. Combined shutter and diaphragm assembly. 3,198,101, 8-3-65, Cl. 95-63.
- Mueller, Martin A.: See—
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- Mueller, Otto. Differential transmission. 3,198,035, 8-3-65, Cl. 74-650.
- Mueller, Otto. Boat bailer. 3,217,685, 11-16-65, Cl. 114-183.
- Mueller, Paul, A. F. Buri, H. Pfister, and R. Trefzer, to Ciba Corp. Process for the manufacture of arylsulfochlorides. 3,211,786, 10-12-65, Cl. 260-543.
- Mueller, Peter A., to Mueller Seal Co. Rotary mechanical seal. 3,203,704, 8-31-65, Cl. 277-42.
- Mueller, Peter A., to Mueller Seal Co. Rotary mechanical seal. 3,220,741, 11-30-65, Cl. 277-92.
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- Mueller, Richard J., to Automatic Canteen Co. of America. Liquid level control apparatus. 3,170,479, 2-23-65, Cl. 137-392.
- Mueller, Richard J., and J. Johnson, to Automatic Canteen Co. of America. Dispensing units. Re. 25,950, 12-14-65, Cl. 62-344.
- Mueller, Robert C., to Bemis Co., Inc. Bag. 3,226,009, 12-28-65, Cl. 229-66.
- Mueller, Robert J., to General Electric Co. Selectively engageable power-assist for X-ray table components. 3,215,835, 11-2-65, Cl. 250-58.
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- Mueller, Walter, to Burroughs Corp. Means for connecting electrical component to circuit board. 3,209,209, 9-28-65, Cl. 317-101.
- Mueller, Walter E. Wall form, waler, and a waler bracket. 3,185,433, 5-25-65, Cl. 249-210.
- Mueller, Werner, H. Distler, and A. Palm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Alkane sulfonic acid esters substituted in β -position by ether groups and their production. 3,190,906, 6-22-65, Cl. 260-456.
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- Muench, John L., Sr. Mixer. 3,224,741, 12-21-65, Cl. 250-30.
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- Muench, Werner, T. Argenziamo, M. Taverna, and L. Notarbartolo, deceased (E. Pascallino, administratrix), and P. Notarbartolo, heires, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Method for the continuous production of caprolactam. 3,167,543, 1-26-65, Cl. 260-239.3.
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- Muennich, Lawrence. Floral basket. 3,224,144, 12-21-65, Cl. 47-35.
- Muessel, Dan C., to American Metal Climax, Inc. Window structure. 3,181,204, 5-4-65, Cl. 20-53.
- Muettterties, Earl L.: See—
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Miller, Henry C., and Muettterties. 3,169,045.
- Muettterties, Earl L., to E. I. du Pont de Nemours & Co. Metal chelates of 1-amino-7-imino-1,3,5-cycloheptatrienes. 3,177,232, 4-6-65, Cl. 260-428.7.
- Muettterties, Earl L., to E. I. du Pont de Nemours & Co. Siliceo and germanium chelates of tropolones. 3,177,237, 4-6-65, Cl. 260-448.2.
- Muettterties, Earl L., to E. I. du Pont de Nemours & Co. Boron tropolone chelates. 3,177,240, 4-6-65, Cl. 260-462.
- Muffy, Glenn. Sealing device for refrigerator doors. 3,208,810, 9-28-65, Cl. 312-206.
- Muggelidge, Reginald, to Rotax Ltd. Electrical stand-by circuit. 3,177,398, 4-6-65, Cl. 315-88.
- Muggleton, Gerald D., to Combined Locks Paper Co. Roller apparatus for coating paper web. 3,175,532, 3-30-65, Cl. 113-119.
- Muggleton, Gerald D., to Combined Locks Paper Co. Method and apparatus for treating the web in a paper making machine by a lump crusher roll. 3,214,328, 10-26-65, Cl. 162-205.
- Muggill, Lawrence A., and K. E. Berg. Separable tiered cake stand. 3,169,496, 2-16-65, Cl. 108-94.
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- Muhlbach, Anton, to United Shoe Machinery Corp. Cutting press having control for initiating cutting strokes of different lengths. 3,171,318, 3-2-65, Cl. 83-530.
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- Mühlhausen, Cornelius, and W. Kallert, 1/2 to Farbenfabriken Bayer Aktiengesellschaft, and 1/2 to Mobay Chemical Co. Process of polyisocyanate modification of polyurethane elastomers. 3,164,439, 1-5-65, Cl. 8-115.5.
- Mulderman, Everhardus A., to North American Philips Co., Inc. Axial bearing provided with a lubricant. 3,207,563, 9-21-65, Cl. 308-172.
- Mulje, Pieter, W. R. Mohondro, and M. C. Fetzner, to Kaiser Aluminum and Chemical Corp. Laminated aluminum article. 3,167,405, 1-26-65, Cl. 29-197.
- Muir, David. Method of making finely divided silicon dioxide. 3,218,726, 11-23-65, Cl. 34-5.
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- Mukaiyama, Teruaki, and T. Hata, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for making pyrophosphate esters using ketene dimer. 3,176,036, 3-30-65, Cl. 260-461.
- Mukaiyama, Teruaki, and T. Hata, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing organophosphate esters. 3,188,309, 6-8-65, Cl. 260-211.5.
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- Mulcahy, George R., Jr., and O. B. Ferguson. Mid-air parachute release device. 3,224,714, 12-21-65, Cl. 244-138.
- Mulcahy, Harry W., and D. R. Holm, to W. H. Miner, Inc. Shock absorbing system. 3,176,855, 4-6-65, Cl. 213-43.
- Mulcahy, Harry W., and J. T. Ellis, Jr., to W. H. Miner, Inc. Hydraulic friction draft gear. 3,198,346, 8-3-65, Cl. 213-43.
- Mulcahy, Ruth. Bedside support. 3,176,322, 4-6-65, Cl. 5-92.
- Mulch, Hans, to Ernst Leitz, Gesellschaft mit beschränkter Haftung. Slide projector for slides in a magazine or in a separate container. 3,170,370, 2-23-65, Cl. 88-28.
- Mulch, Hans, to Ernst Leitz G.m.b.H. Storage container for slide magazines. 3,180,697, 4-27-65, Cl. 312-293.
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- Mulch, Hans, W. Jung, and H. Lussem, to Ernst Leitz, Gesellschaft mit beschränkter Haftung. Reversible control switch for a slide projector having a slide position indicator. 3,171,006, 2-23-65, Cl. 200-167.
- Mulder, Harry: See—
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- Muldoon, William J., and R. W. Peterson, to Hughes Aircraft Co. Programmed digital to analog function generator motor control for an X-Y plotter. 3,225,279, 12-21-65, Cl. 318-162.
- Mulford, Stewart F., to Baldwin-Lima-Hamilton Corp. Evaporator construction. 3,172,824, 3-9-65, Cl. 202-173.
- Mülhaupt, Gustav. Railway car having independently rotating wheels and guiding rim. 3,182,513, 5-11-65, Cl. 73-514.
- Mulhern, William A., and E. G. Spisak, to Gar Wood Industries, Inc. Wheel cover. 3,174,803, 3-23-65, Cl. 301-37.
- Mulinos, Michael G., to Commercial Solvents Corp. Triamine acid addition salts of caprylic, propionic and undecylenic acids. 3,164,619, 1-5-65, Cl. 260-404.5.
- Mulkin, Marion A. Therapeutic gravity actuated, sustained pressure applicator. 3,213,853, 10-26-65, Cl. 128-69.
- Müll, Arnold, to Metallgesellschaft Aktiengesellschaft. Cooling apparatus for hot bulk materials. 3,169,051, 2-9-65, Cl. 34-174.
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- Mull, Robert P., to Ciba Corp. N-(2-guanidinoethyl)-N-(picolyl)-amines. 3,178,443, 4-13-65, Cl. 260-296.
- Mull, Robert P., to Ciba Corp. 1-[2-(N,N-alkylene-imino)-alkyl]-2-amino-guanidines and intermediates therefor. 3,189,599, 6-15-65, Cl. 260-239.
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- Mullen, John H., to Westinghouse Electric Corp. Control switch operator. 3,169,406, 2-16-65, Cl. 74-99.
- Mullen, John H., to Westinghouse Electric Corp. Control switch actuating means. 3,170,995, 2-23-65, Cl. 200-4.
- Mullen, Owen K. Height indicating gauge. 3,205,586, 9-14-65, Cl. 33-185.
- Mullenger, Keith E., to Servo Corp. of America. Hot box detector. 3,201,584, 8-17-65, Cl. 246-169.
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- Müller, Alex M., to Telautograph Corp. Position control system. 3,172,950, 3-9-65, Cl. 178-19.
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- Müller, Alfred H. and E., to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,165,259, 1-12-65, Cl. 230-207.
- Müller, Bernhard. Admixing apparatus. 3,224,637, 12-21-65, Cl. 222-57.
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- Müller, Erich. Anti-glare device. 3,212,102, 10-19-65, Cl. 2-12.
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- Müller, Ernst. Machine for incasing cables and the like. 3,203,216, 8-31-65, Cl. 72-258.
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- Müller, Erwin, O. Bayer, and S. Petersen, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polyamines. 3,184,502, 5-18-65, Cl. 260-482.
- Müller, Erwin, K. Schmidt, and H. Schultheis, to Farbenfabriken Bayer Aktiengesellschaft. Chain extended polyether prepolymer polyurethane castings. 3,192,186, 6-29-65, Cl. 260-77.5.
- Müller, Erwin, and K. Dinges, to Farbenfabriken Bayer Aktiengesellschaft. Copolymers having self-cross-linking properties. 3,206,425, 9-14-65, Cl. 260-29.6.
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- Müller, Felix, to Kienzle Apparate G.m.b.H. Magnetic tumblers switch. 3,226,509, 12-28-65, Cl. 200-113.
- Müller, Felix, and N. Helmschrott, to Kienzle Apparate G.m.b.H. Erasing arrangement for recording devices. 3,184,748, 5-18-65, Cl. 346-21.
- Müller, Frank A. Clamp for pantograph arms. 3,184,850, 5-25-65, Cl. 33-25.
- Müller, Frank G. Butterfly valve assembly and seal forming means therefor. 3,215,400, 11-2-65, Cl. 251-306.
- Müller, Franz, B. Kohlhaas, and L. Wlñners, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for heating and burning cement raw material, containing alkali. 3,212,764, 10-19-65, Cl. 263-32.
- Müller, Franz, Maschinenfabrik, Firma: See—
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- Müller, Friedrich. Combined room heating and warm water preparing apparatus. 3,171,387, 3-2-65, Cl. 122-33.
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 Müller, Georges, to Roussel-UCLAF. New colchicine and thio-colchicine derivatives and process of preparation. 3,194,835, 7-13-65, Cl. 260-554.
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- Murakami, Tomomi, to Radio Corp. of America. AGC parametric amplifier using negative bias and detuned circuits. 3,195,062, 7-13-65, Cl. 330-4-9.
- Murakami, Yukiugu: See—Kawabata, Masayoshi, Murakami, and Akamatsu. 3,177,381.
- Murakoshi, Masahiko: See—Nagumo, Tadashi, and Murakoshi. 3,168,372.
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- Muranaka, Dwight M., Y. Yamamoto, E. S. Hamberg, and L. T. Ikegami, to Y 2 Associates, Inc. Selective signal-responsive circuit. 3,187,234, 6-1-65, Cl. 317-147.
- Murao, Sawao: See—Sakaguchi, Kinichiro, and Murao. 3,180,861.
- Muraszko, Jan T., to The Plessey Co. Ltd. Apparatus for frequency synthesis. 3,202,930, 8-24-65, Cl. 331-2.
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- Murata, Chozo, to Canon Camera Co., Inc. Magnetic sound recording and reproducing apparatus of the spiral scanning type. 3,210,082, 10-5-65, Cl. 274-4.
- Murata, Kazumi, and H. Matui, to Agency of Industrial Science and Technology. Method of and apparatus for measuring of the contrast-transmission function of an optical system. 3,193,690, 7-6-65, Cl. 250-232.
- Murata, Kikak Kabushiki Kaisha: See—Oishi, Isao. 3,224,694.
- Murata, Masatake, and S. Ikeda, to Shin-Mitsubishi Jukogyo Kabushiki Kaisha. Method of manufacturing hollow cylindrical members with apertured internal partitions. 3,192,609, 7-6-65, Cl. 29-155-5.
- Murata, Yoshio, to Kayaba Industry Co., Ltd. Valve device of an oil damper for suspension of a wheel of a vehicle. 3,180,453, 4-27-65, Cl. 186-100.
- Muravjev, Ivan A., and V. D. Ponomarev. Method for deriving glycerol production. 3,164,581, 1-5-65, Cl. 260-210-5.
- Murray, Ian, and J. Raventos, to Imperial Chemical Industries Ltd. Organic compound and process for making the same. 3,177,260, 4-6-65, Cl. 260-653.
- Murayama, Katsuhiko, to Nippon Kogaku K.K. Mechanism for indicating the leveling direction in a surveying instrument. 3,221,414, 12-7-65, Cl. 33-14.
- Murch, Kenneth C.: See—Mees, George M., and Murch. 3,226,531.
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- Murdoch, John P. Heating and cooling system. 3,176,760, 4-6-65, Cl. 165-29.
- Murdoch, John P. Air conditioning system. 3,186,183, 6-1-65, Cl. 62-183.
- Murdock, Abe. Flag pole holder. 3,182,936, 5-11-65, Cl. 248-44.
- Murdock, Benjamin, to Fortuna Foundation, Inc. Hose supporter. 3,187,755, 6-8-65, Cl. 128-535.
- Murdock, James D., to Canadian Industries Ltd. Curable coating composition comprising carboxyl containing copolymer a second copolymer and amine/aldehyde condensate or epoxy resin. 3,222,418, 12-7-65, Cl. 260-834.
- Murdock, James D., to Canadian Industries Ltd. Curable coating composition comprising copolymer containing grafted carboxyl or alkylated amide groups, and amine/aldehyde condensate or epoxy resin. 3,223,655, 12-14-65, Cl. 260-4.
- Murdock, Louis J. Emergency cut off device actuated by movement of operator. 3,210,494, 10-5-65, Cl. 200-61-19.
- Murdock, Nelson. Safety line clamp. 3,177,544, 4-13-65, Cl. 24-134.
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- Murib, Jawad H., and I. L. Mador, to National Distillers and Chemical Corp. Process for the preparation of a boron trihalide. 3,173,760, 3-10-65, Cl. 23-205.
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- Murphy, Bernard A., to Inland Container Corp. Bulk container device. 3,194,471, 7-13-65, Cl. 229-14.
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- Murphy, Bynum E., to Anderson-Dunham, Inc., d.b.a. Dunham Mfg. Co. Load controlling hitch assembly for hydraulic depth-controlled, trailing implements. 3,182,730, 5-11-65, Cl. 172-7.
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- Murphy, Francis T., to Rock-Ola Mfg. Corp. Mechanism for coin operated vending machines. 3,179,225, 4-20-65, Cl. 194-2.
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- Murphy, Frank E., Jr., to Corning Glass Works. Stable fluid amplifiers. 3,181,545, 5-4-65, Cl. 137-81-5.
- Murphy, Frank W., Jr. Adjustable lever-actuated open-blade snap-action electrical switch. 3,200,213, 8-10-65, Cl. 200-67.
- Murphy, George P., Jr., and F. S. Meade, to United States of America, Army. Corrosion inhibiting resin-bonded solid film lubricant. 3,223,626, 12-14-65, Cl. 252-25.
- Murphy, George R., to Sperry Rand Corp. Motion transmitting mechanism. 3,191,448, 6-29-65, Cl. 74-125.
- Murphy, Gerald G., to Hogan Faximile Corp. Controlled facsimile copy cutting mechanism. 3,184,540, 5-18-65, Cl. 178-6.
- Murphy, Gerald G., to Hogan Faximile Corp. Facsimile phasing mechanism. 3,192,319, 6-29-65, Cl. 178-69-5.
- Murphy, Gerald G., to Hogan Faximile Corp. Facsimile phasing system. 3,207,846, 9-21-65, Cl. 178-69-5.
- Murphy, Gerald G., to Hogan Faximile Corp. Photosensitive facsimile transmitter light assembly. 3,207,908, 9-21-65, Cl. 250-217.
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- Murphy, Jack E., to National Dairy Products Corp. Manufacture of American cheese. 3,175,915, 3-30-65, Cl. 99-116.
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- Murphy, John P. Method of cleaning aqueous systems. 3,184,386, 5-18-65, Cl. 134-22.
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- Murphy, Joseph W., to Northrop Corp. Flexible wire and cable shielding. 3,215,768, 11-2-65, Cl. 174-38.
- Murphy, L. R. Scale Co.: See—Murphy, Leslie R. 3,167,141.
- Murphy, Leslie R., to L. R. Murphy Scale Co. Transportable scale with extendible width. 3,167,141, 1-26-65, Cl. 177-126.
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- Murphy, Remington M., and B. V. Janakirama-Rao, to International Resistance Co. Resistance material and resistor made therefrom. 3,180,841, 4-27-65, Cl. 252-515.
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- Murphy, Shirley D., and G. F. Farmer. Ice making machine. 3,175,369, 3-30-65, Cl. 62-3.
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- Murphy, William W., to The Torrington Co. Combined radial and dual thrust bearing for shafts. 3,168,359, 2-2-65, Cl. 308-174.
- Murr, Eugene W. Tension release mechanism. 3,205,716, 9-14-65, Cl. 74-2.
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- Murr, William C., and G. J. Eilers, Jr., to Bio-Engineering, Inc. Electric tonometer. 3,184,960, 5-25-65, Cl. 73-80.
- Murray, Alan E. Method of forming thin resilient shells. 3,197,534, 7-27-65, Cl. 264-223.
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- Murray, James W., Jr., to Shaffer Tool Works. Casing landing device. 3,204,695, 9-7-65, Cl. 166-55.6.
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- Murray, Ned. Rotary cylinder mixing machine. 3,194,538, 7-13-65, Cl. 259-3.
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- Murray, Patrick J., to Hallamur, Inc. Method of and system for sewage treatment. 3,186,939, 6-1-65, Cl. 210-7.
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- Murry, Robert O. Hermetically sealed resistor. 3,173,122, 3-9-65, Cl. 338-237.
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- Musgrave, Earle. Pre-gapped distributor points. 3,207,963, 9-21-65, Cl. 200-30.
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- Musser, C. Walton, Insistor. 3,203,141, 8-31-65, Cl. 52-1.
- Musser, C. Walton, and R. W. Markgraf, to United States of America, Army. Recoilless gun for simultaneously separately loading propellant and projectile. 3,194,118, 7-13-65, Cl. 89-1.7.
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- Nelson, Harvey J., to The Budd Co. Work handling apparatus. 3,178,040, 4-13-65, Cl. 214-1.
- Nelson, Herbert, and J. Bernath, to Radio Corp. of America. Transistor with emitter at bottom of groove extending crosswise the base. 3,187,241, 6-1-65, Cl. 317-284.
- Nelson, Howard N., to Kimberly-Clark Corp. Cellulosic products. 3,197,109, 7-27-65, Cl. 229-37.
- Nelson, Ivan L., and N. C. Chamberlain, to Deere & Co. Coupling. 3,215,458, 11-2-65, Cl. 287-53.
- Nelson, Iver L., to Waldorf Paper Products Co. Apparatus for electrostatically treating extruded polyethylene film and the like. 3,200,313, 8-10-65, Cl. 317-282.
- Nelson, Iver L., and K. F. Halladin, to Waldorf Paper Products Co. Carton coating apparatus. 3,169,081, 2-9-65, Cl. 118-60.
- Nelson, James A.: See—
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- Walker, Norman C., and Nelson. 3,185,932.
- Nelson, James A. Combination cultivating and furrowing tool. 3,174,558, 3-23-65, Cl. 172-722.
- Nelson, James C.: See—
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- Nelson, James C., to Business Systems Inc. Work enclosing table. 3,215,483, 11-2-65, Cl. 312-249.
- Nelson, James F.: See—
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- Nelson, James J., and J. E. Jones, to Ohio Plate Glass Co. Portable combined display fixture and room divider screen. 3,171,543, 3-2-65, Cl. 211-45.
- Nelson, Jerome W.: See—
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- Nelson, Jerome W., G. E. Faulkner, and H. C. Cook, to Esso Research and Engineering Co. Apparatus for welding pipe lines. 3,196,245, 7-20-65, Cl. 219-60.
- Nelson, John C.: See—
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- Nelson, John F., to Illinois Tool Works Inc. Multiple tool holders. 3,187,902, 6-8-65, Cl. 211-60.
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- Nelson, John P., and J. F. Dernovshek, to The Goodyear Tire & Rubber Co. Air cooled disc brake. 3,217,844, 11-16-65, Cl. 188-264.
- Nelson, John R.: See—
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- Nelson, John S. Permanent mold for casting aluminum stud chain links. 3,176,357, 4-6-65, Cl. 22-137.
- Nelson, John W.: See—
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- Nelson, John W., to Sinclair Research Inc. Rust inhibiting composition. 3,190,734, 6-22-65, Cl. 44-71.
- Nelson, Joseph F., to Esso Research and Engineering Co. Carbon electrodes. 3,197,395, 7-27-65, Cl. 204-294.
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- Nelson, Kenneth E., to Arizona Agrochemical Corp. Fire suppressing composition for aerial application. 3,196,108, 7-20-65, Cl. 252-2.
- Nelson, Kenneth L., to King-Seely Thermos Co. Diaphragm actuated control valves for an ice maker. 3,218,824, 11-23-65, Cl. 62-348.
- Nelson, Kenneth W.: See—
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- Nelson, Knut E., and C. Thierfeldt, to Dahlstrom Mfg. Corp. Pressure air line with valved take-off stations. 3,195,562, 7-20-65, Cl. 137-322.
- Nelson, L. R. Mfg. Co., Inc.: See—
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- Nelson, Lorne W., and J. O. Thorshelm, to Honeywell Inc. Multi-stage temperature control apparatus. 3,215,348, 11-2-65, Cl. 236-68.
- Nelson, Lowell E., to John Wood Co. Pump operating mechanism. 3,178,057, 4-13-65, Cl. 222-35.
- Nelson, MacLay P., and E. Ritzheimer. Reversible bits for bulldozer and similar blades. 3,190,018, 6-22-65, Cl. 37-143.
- Nelson, Milton C. Screw anchor securing tool. 3,166,210, 1-19-65, Cl. 218-43.
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- Nelson, Norman A.: See—
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- Kagan, Fred, and Nelson. 3,172,895.
- Kagan, Fred, and Nelson. 3,172,896.
- Nelson, Fred B. 3,185,227.
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- Nelson, Norman A., to Jersey Production Research Co. Continuously determining the density of a flow stream. 3,175,403, 3-30-65, Cl. 73-438.
- Nelson, Norman A., to Jersey Production Research Co. Recording method. 3,181,164, 4-27-65, Cl. 346-1.
- Nelson, Paul E. Semaphore light. 3,206,744, 9-14-65, Cl. 340-378.
- Nelson, Permil N., to Lynn H. Ewing, d.b.a. Blackhawk Co. Rafter support. 3,184,800, 5-25-65, Cl. 20-1.
- Nelson, Permil N., to Lynn H. Ewing, d.b.a. Blackhawk Co. Leaf sprayers. 3,185,397, 5-25-65, Cl. 239-556.
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- Nelson, Richard B., to Varian Associates. High frequency tube method and apparatus. 3,169,206, 2-9-65, Cl. 315-539.
- Nelson, Richard B., to Varian Associates. Electron tube apparatus having slanted output window between offset waveguides. 3,169,209, 2-9-65, Cl. 315-39.3.
- Nelson, Richard C.: See—
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- Nelson, Richard C., and J. Steeneken, to The Garrett Corp. Flow regulating means for valves. 3,204,660, 9-7-65, Cl. 137-505.38.
- Nelson, Richard G., to Atlas Chemical Industries, Inc. Detonating means securing device. 3,170,400, 2-23-65, Cl. 102-24.
- Nelson, Robert E., to General Motors Corp. Propeller synchronizer module with synchrophasing circuit. 3,177,400, 4-6-65, Cl. 317-6.
- Nelson, Robert E., to General Motors Corp. D.C. amplifier including a feedback oscillator and saturable core. 3,211,920, 10-12-65, Cl. 307-88.5.
- Nelson, Robert J. Catch mechanism. 3,178,218, 4-13-65, Cl. 292-18.
- Nelson, Robert J. Safety shield for electrical outlet boxes. 3,189,678, 6-15-65, Cl. 174-67.
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- Nelson, Roland D.: See—
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- Nelson, Roland D., to RT & E Corp. Electrical system and method of establishing same. 3,210,604, 10-5-65, Cl. 317-15.
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- Nelson, Ted. Mattress support tilt regulator. 3,220,019, 11-30-65, Cl. 5-62.
- Nelson, Ted. Adjustable height bed. 3,220,020, 11-30-65, Cl. 5-63.
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- Nelson, Ted. Bed side guard rail. 3,220,024, 11-30-65, Cl. 5-331.
- Nelson, Ted. Table attachment means. 3,220,025, 11-30-65, Cl. 5-332.
- Nelson, Ted R., to National Distillers and Chemical Corp. Device for indicating and controlling levels of variable bulk density solids mixtures. 3,174,648, 3-23-65, Cl. 222-56.
- Nelson, Thomas A., and R. L. Burlingame, to The Bendix Corp. Damped bellows construction. 3,213,764, 10-26-65, Cl. 92-41.
- Nelson, Thomas F., to General Electric Co. Power-operated knife. 3,203,095, 8-31-65, Cl. 30-272.
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- Nelson, Walter E., and H. B. Smith, to Varian Associates. Cavity resonator with tiltable tuning member movable to ward and away from interaction gap of re-entrant tubes. 3,209,200, 9-28-65, Cl. 315-552.
- Nelson, Warren L., and C. Salama, to l'Air Liquide Societe Anonyme Poul l'Etude et l'Exploitation des Procédes Georges Claude. Method for the purification of hydrogen. 3,197,970, 8-8-65, Cl. 62-17.
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- Nelson, Wayne R., to Gresen Mfg. Co. Spool type control valve for controlling hydraulic actuators. 3,174,510, 3-23-65, Cl. 137-625.69.
- Nelson, William M., to Kollsman Instrument Corp. Solid state altimeter. 3,206,980, 9-21-65, Cl. 73-386.
- Nelson, William R., to The Texas Pipe Line Co. Secondary seal for floating tank roof. 3,167,206, 1-26-65, Cl. 220-26.
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Obenshain, David N., and W. R. Penrod, to The Black-Clawson Co. Device for forming stacks of sheeted web material. 3,173,321, 3-16-65, Cl. 83-152.

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Oberdorfer, Karl. Method and apparatus for freezing food products. 3,214,928, 11-2-65, Cl. 62-63.

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Oberg, Gustave A.: See—
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Oberhofer, Alfred W., to Nalco Chemical Co. Corrosion inhibition. 3,223,620, 12-14-65, Cl. 210-30.

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Oberster, Arthur E., and W. S. Cook, to The Firestone Tire & Rubber Co. Imidazolidine thione hydrochloric acid salts as stabilizers. 3,205,194, 9-7-65, Cl. 260-45.8.

Oberster, Arthur E., R. E. Beyler, and L. H. Saret, to Merck & Co., Inc. 6 α -methyl-21 halo nor ethisterones and intermediates in the preparation thereof. 3,211,725, 10-12-65, Cl. 260-239.53.

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Obert, Maximilian J., and R. L. Barbin, to Radio Corp. of America. Electromagnetic deflection yoke having interconnected multifilar strands. 3,169,207, 2-9-65, Cl. 315-27.

Oberth, Adolph E., and R. S. Bruenner, to Aerojet-General Corp. Dihydroxy alkyl bis-(2-cyanoethyl) amines and processes for the preparation thereof. 3,203,976, 8-31-65, Cl. 260-465.5.

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O'Brien, Donald F. Method of and apparatus for producing electrical signals representing graphic information. 3,170,987, 2-23-65, Cl. 178-18.

O'Brien, Donald G., to American Measurement & Control, Inc. Armature suspension for torque motor. 3,165,676, 1-12-65, Cl. 317-171.

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O'Brien, Harold C., Jr. Methods of coating pipe. 3,211,598, 10-12-65, Cl. 156-85.

O'Brien, Helen T. Slipper cast. 3,198,192, 8-3-65, Cl. 128-83.5.

O'Brien, George A., to The Singer Co. Drawer and drawer mounting for sewing machine stand. 3,169,495, 2-16-65, Cl. 108-26.

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Stone, Morris D., and O'Brien. 3,169,420.

O'Brien, Jeremiah W., to United Engineering and Foundry Co. Roll changing apparatus. 3,180,125, 4-27-65, Cl. 72-289.

O'Brien, Jeremiah W. Rolling mill. 3,190,100, 6-22-65, Cl. 72-248.

O'Brien, John P. Removable supporting attachment for golf shoes. 3,218,734, 11-23-65, Cl. 36-2.5.

O'Brien, Leo J., and G. G. Bernard, to The Pure Oil Co. Fluid flow indicating method and apparatus for well bores. 3,187,567, 6-8-65, Cl. 73-155.

O'Brien, Paul R., to Reynolds Metals Co. Method of producing a bumper. 3,212,941, 10-19-65, Cl. 148-12.7.

O'Brien, Paul S., to National Steel Corp. Structural member. 3,225,872, 12-28-65, Cl. 189-36.

O'Brien, Philip J., to Standard Pyroloxoid Corp. Mirror and easel therefor. 3,179,361, 4-20-65, Cl. 248-33.

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O'Brien, Richard C., to Harris-Intertype Corp. Typesetting apparatus. 3,219,806, 11-23-65, Cl. 235-151.22.

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O'Brien, Richard C., R. A. Proud, Jr., and F. Hunstiger, to Harris-Intertype Corp. Photographic type composition. 3,193,806, 5-18-65, Cl. 95-4.5.

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O'Brien, Robert F., to Mission-West Mfg. Co. Toilet bowl assembly. 3,217,337, 11-16-65, Cl. 4-79.

O'Brien, Robert F., and K. A. Millette, to Mission-West Mfg. Co. Method and means for operating a toilet in a fallout shelter. 3,183,525, 5-18-65, Cl. 4-1.

O'Brien, Samuel J.: See—
Pierce, Elliot S., Slowata, and O'Brien. 3,181,966.

Van Loo, William J., Jr., and O'Brien. 3,177,093.

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O'Brien, William H., to Leesona Corp. Method of winding yarn. 3,202,370, 8-24-65, Cl. 242-43.2.

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Och, Edward J., and J. F. Geigle. Educational device for teaching electrical circuit theory, fundamentals, electronics, and the like. 3,175,304, 3-30-65, Cl. 35-19.

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Ochs, Charles S., and J. C. Runco, to Anchor Hocking Glass Corp. Automatic closure cap selector. 3,195,705, 7-20-65, Cl. 193-43.

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Ochsner, Adolf, to J. Ochsner & Cie., AG. Refuse collecting vehicle. 3,195,750, 7-20-65, Cl. 214-518.

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Ocone, Luke R.: See—
Block, Burton P., Ocone, and Simkin. 3,197,436.

O'Connell, Frank S., to Monsanto Co. Two-part catalyst system in process for preparing one stage phenolic resins. 3,226,364, 12-28-65, Cl. 260-57.

O'Connell, James A., Jr., to General Telephone and Electronics Laboratories, Inc. Electroluminescent display device. 3,184,635, 5-18-65, Cl. 315-71.

O'Connell, John H., to Radio Corp. of America. F.M. stereophonic multiplex receiver having automatic disabling means for the subcarrier channel. 3,170,040, 2-16-65, Cl. 179-15.

O'Connell, John J., to Monsanto Research Corp. Polymeric chelates of hydroxy-substituted anthraquinones and the process for their preparation. 3,192,236, 6-29-65, Cl. 260-366.

O'Connell, Mark J.: See—
Hoppe, George E., Jr., and O'Connell. 3,177,934.

O'Connell, Philip E., to Radio Corp. of America. Magnetic recording and reproducing apparatus. 3,216,275, 11-9-65, Cl. 74-483.

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O'Connell, Thomas B., R. R. Snow, and N. K. Gladieux, to Libbey-Owens-Ford Glass Co. Method and apparatus for treating sheet glass. 3,199,966, 8-10-65, Cl. 65-26.

O'Connell, Thomas B., A. E. Badger, and D. E. Shamp, to Libbey-Owens-Ford Glass Co. Compositions for sealing holes in glass. 3,215,544, 11-2-65, Cl. 106-47.

O'Conner, James F.: See—
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O'Conner, Buell, to Standard Oil Co. Slow release fertilizers. 3,206,297, 9-14-65, Cl. 71-28.

O'Conner, Chadwell. Instrument supporting head. 3,180,603, 4-27-65, Cl. 248-183.

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O'Conner, Donald J., and W. A. Proell, to Standard Oil Co. Ammonium nitrate propellant. 3,180,772, 4-27-65, Cl. 149-47.

O'Conner, Henry L., to The Indian Iron & Steel Co. Ltd. Treatment of hematite iron ore for use in the production of iron. 3,214,263, 10-26-65, Cl. 75-3.

O'Conner, James E., to Document Disintegration, Inc. Document disintegrating mechanism. 3,189,286, 6-15-65, Cl. 241-186.

O'Conner, James E., to Document Disintegration, Inc. Document disintegrating method. 3,192,853, 7-6-65, Cl. 100-39.

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O'Conner, Roderic H.: See—
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O'Conner, Thomas J., to Easco Products, Inc. Electrohydraulic electrode feed for spark cutting apparatus. 3,167,632, 12-26-65, Cl. 219-69.

O'Conner, Thomas J., to Easco Products, Inc. Quick-change electrodes system for spark-cutting apparatus. 3,222,494, 12-7-65, Cl. 219-69.

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O'Daniel, Jerome B., and L. E. Palmer, to International Business Machines Corp. Ribbon feed mechanism. 3,171,530, 3-2-65, Cl. 197-151.

O'Daniel, Jerome B., and L. E. Palmer, to International Business Machines Corp. Wear compensating apparatus having plural pawls. 3,224,546, 12-21-65, Cl. 197-16.

O'Daniel, Oscar. Inflated amusement device for playpens. 3,165,759, 1-19-65, Cl. 5-93.

O'Daniel, Oscar. Resilient repelling amusement device. 3,176,982, 4-6-65, Cl. 272-1.

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O'Day, James C., and G. J. Sweeney, to Air Devices, Inc. One motor mixing box. 3,179,125, 4-20-65, Cl. 137-607.

Oddie, William M. Blast cleaning machines. 3,190,042, 6-22-65, Cl. 51-15.

Oddo, Rocco R., G. Lapp, and R. M. Seelagy, to General Precision, Inc. Unambiguous encoder. 3,197,764, 7-27-65, Cl. 340-347.

Oddy, Edward P., to Borg-Warner Corp. Method of making a heat exchanger. 3,182,380, 5-11-65, Cl. 29-157.3.

Oddy, Edward P., and L. Kinal, to Borg-Warner Corp. Heat exchanger and method of its manufacture. 3,182,481, 5-11-65, Cl. 72-326.

Odell, Eugene I., to Dake Corp. Method and apparatus for orienting articles. 3,208,578, 9-28-65, Cl. 198-33.

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O'Dell, Leonard J., to American Air Filter Co., Inc. Fabric tube type dust collector and method of operating the same. 3,217,468, 11-16-65, Cl. 55-96.

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Odell, Robert L., to Good Roads Machinery Corp. Automatic shutoff for spreader. 3,208,359, 9-28-65, Cl. 94-44.

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O'Donnell, Francis E., F. B. Hallatt, Jr., and A. J. Hallatt, and F. Doerscheln. Sheet cutting machine. 3,183,743, 5-18-65, Cl. 77-5.

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O'Donnell, James D. Illuminated copy holder. 3,201,578, 8-17-65, Cl. 240-2.

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O'Donnell, James W. Overhead rail systems. 3,204,575, 9-7-65, Cl. 104-99.

O'Donnell, James W. Overhead rail systems. 3,212,452, 10-19-65, Cl. 104-91.

O'Donnell, John E.: See—

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O'Donnell, John J., deceased; M. O'Donnell, surviving spouse. Rope slings. 3,181,907, 5-4-65, Cl. 294-74.

O'Donnell, John M., R. O. Platt, and C. D. Gabor, to Harbison-Walker Refractories Co. Brickmaking. 3,166,814, 1-26-65, Cl. 25-103.

- O'Donnell, John M., R. O. Platt, and C. D. Gabor, to Harbison-Walker Refractories Co. Feeding system for a brick press. 3,187,401, 6-8-65, Cl. 25-103.
- O'Donnell, John M., and C. D. Gabor, to Harbison-Walker Refractories Co. Casing brick. 3,213,528, 10-26-65, Cl. 29-211.
- O'Donnell, Lawrence E., to Hooker Chemical Corp. Polyester/phenol-aldehyde resin emulsion molding composition and laminated articles. 3,216,884, 11-9-65, Cl. 161-232.
- O'Donnell, Mabel: See—
- O'Donnell, John J. 3,181,907.
- O'Donnell, William R., and W. Stelman, to Valve Corp. of America. Atomizer pump. 3,198,403, 8-3-65, Cl. 222-321.
- O'Donnell, William R., to Valve Corp. of America. Aerosol dispenser. 3,221,950, 12-7-65, Cl. 222-394.
- O'Donnell, William R., to Valve Corp. of America. Aerosol valve construction. 3,225,969, 12-28-65, Cl. 222-394.
- O'Donovan, Elizabeth: See—
- O'Donovan, Michael F. 3,199,560.
- O'Donovan, Michael F., by court decree to E. O'Donovan. Cutting guide and support. 3,199,560, 8-10-65, Cl. 146-150.
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- Vowell, Kennison L., and O'Dor. 3,188,873.
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- Odwasny, Thaddeus, to Adjustable Fixture Co. Lamp fixtures. 3,203,774, 9-28-65, Cl. 285-158.
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- Davies, Derek F. V., Buchanan, and Oedjoe. Cable stripper. 3,165,013, 1-12-65, Cl. 81-9.51.
- Oehlerking, Dean, to Ideal Industries, Inc. Pistol grip wire stripper. 3,182,532, 5-11-65, Cl. 81-9.5.
- Oehlerking, Dean, and D. L. Pickens, to Ideal Industries, Inc. Wiring device mounted on the box cover and outlet box. 3,213,596, 11-16-65, Cl. 339-14.
- Oehlerking, Dean, D. L. Pickens, and T. E. Trethewey, to Ideal Industries, Inc. Universal electrical outlet box. 3,213,597, 11-16-65, Cl. 339-14.
- Oehrich, Karl-Heinz: See—
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- Oehrich, Karl-Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for mixing and separating substances of different mass-inertia. 3,199,270, 8-10-65, Cl. 55-261.
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- Oehrich, Karl-Heinz, and K. R. Schmidt, to Siemens-Schuckertwerke Aktiengesellschaft. Method and apparatus for handling pulverulent material. 3,226,165, 12-28-65, Cl. 302-17.
- Oehrich, Karl-Heinz, and A. Fracke, to Siemens-Schuckertwerke Aktiengesellschaft. Fluid-cooled rotating machines, particularly electric motors and generators. 3,226,580, 12-28-65, Cl. 310-57.
- Oehme, Horst: See—
- Probst, Otto, and Oehme. 3,173,948.
- Oehmig, Robert G. Screen frame. 3,220,469, 11-30-65, Cl. 160-380.
- Oeland, Ernest N., Jr., to United States of America, Navy. Fall-safe device for porting stored rocket motors. 3,185,036, 5-25-65, Cl. 89-1.7.
- Oelderik, Jan M., E. L. Mackor, J. C. Platteauw, and A. van der Wiel, to Shell Oil Co. Hexafluoroantimonic acid-catalyzed hydrocarbon conversions. 3,201,494, 8-17-65, Cl. 260-683.47.
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- Orzechowski, Adam, and J. C. MacKenzie, to Cabot Corp. Surface treated metal oxide polymerization catalysts and method of preparation. 3,205,177, 9-7-65, Cl. 252-429.
- Orzechowski, Adam, and J. C. MacKenzie, to Cabot Corp. Surface treated metal oxide polymerization catalyst and method of preparation. 3,205,178, 9-7-65, Cl. 252-429.
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- Osafune, Hiroe, and I. Sasaki, to Nippon Electric Co. Ltd. Semiconductor device. 3,193,740, 7-6-65, Cl. 317-235.
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Papke, Friedrich, to Voigtlander A.G. Air gap Albada viewfinder with lateral mirror and lens on front element for viewing external indicator. 3,182,545, 5-11-65, Cl. 88-1.5.
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Papke, Friedrich, to Voigtlander A.G. Reflex camera viewfinder including composite setting disk with Fresnel lens surfaces and focusing wedges. 3,182,576, 5-11-65, Cl. 95-42.
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- Paquette, Leo A., to The Upjohn Co. N-substituted 1,3-dihydro-2H-azepin-2-ones. 3,177,204, 4-6-65, Cl. 260-239.3.
- Paquette, Leo A., to The Upjohn Co. Bis-chloromethylsulfonamides of cyclic diamines. 3,184,447, 5-18-65, Cl. 260-239.
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- Pearl, James C., to Gardner-Denver Co. Torque responsive clutch. 3,205,985, 9-14-65, Cl. 192-56.
- Pearl, Judea, to Radio Corp. of America. Apparatus, without moving parts, for moving a storage area along a storage medium. 3,201,765, 8-17-65, Cl. 340-173.1.
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- Pearlstein, Fred, to United States of America, Army. Stabilized electroless copper solution. 3,222,195, 12-7-65, Cl. 106-1.
- Pearman, James R. G., to Eastman Kodak Co. Vaginal tampon and applicator. 3,177,872, 4-13-65, Cl. 128-263.
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- Pearson, Charles E., ½ to L. H. Booker, and ½ to M. W. Salvage. Dirt discharging means for auger-drill rig. 3,190,375, 6-22-65, Cl. 175-88.
- Pearson, Chester H. Sewage treatment apparatus. 3,207,314, 9-21-65, Cl. 210-195.
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- Pearson, Frederick H., to Rose Brothers (Gainsborough) Ltd. Method and machine for wrapping. 3,208,191, 9-28-65, Cl. 53-27.
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- Pearson, John H., to The Black-Clawson Co. Apparatus for oscillating a traveling web in paper machinery. 3,184,374, 5-18-65, Cl. 162-257.
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- Pelick, Nicholas, to Applied Science Laboratories, Inc. Applier for thin layer chromatography. 3,203,021, 8-31-65, Cl. 15-236.
- Pellisson, Claude G. D., to Societe d'Exploitation des Matieres Hispano-Suizas. Hydraulic control systems including double action receiver apparatus. 3,225,663, 12-28-65, Cl. 91-305.
- Pell, Eric, to Cutler-Hammer, Inc. Circuit condition indicating systems. 3,179,930, 4-20-65, Cl. 340-213.
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- Pell, Kalman L. Finger-tip gripping aid for bowlers. 3,214,167, 10-26-65, Cl. 273-54.
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- Pellegrini, John P., Jr.: See—Fareri, Elizabeth L., and Pellegrini. 3,226,373.
- Pellegrini, Louis C., to Mario Coil Co. Heat exchangers. 3,215,347, 11-2-65, Cl. 236-1.
- Pellen, Josef, and R. Allis, to Sperry Rand Corp. Reversible ratchet drives. 3,181,380, 5-4-65, Cl. 74-152.
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- Pellerino, Ernest, and A. Martorelli. Filling apparatus for dispensing measured amounts of liquids. 3,181,576, 5-4-65, Cl. 141-293.
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- Pellicciotti, Fernando A., to Socony Mobil Oil Co., Inc. Wind-up reel for flexible conduit. 3,185,399, 5-25-65, Cl. 242-54.
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- Pels, Alan R., and H. F. Petsch, to National Distillers and Chemical Corp. Process for making a copper-chromium-zirconium alloy. 3,194,655, 7-13-65, Cl. 75-135.
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- Peltier, Marcel: See—Rombeau, Paul, and Peltier. 3,214,238.
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- Peltier, Wilfred L., to Walco Electric Co. Adapter for brushless wire preheater. 3,176,111, 3-30-65, Cl. 219-10.61.
- Peltier, William J. System for counting moving objects of different dimensions. 3,197,620, 7-27-65, Cl. 235-92.
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- Pelto, Thomas A., to The Coe Mfg. Co. Veneer lathe. 3,176,735, 4-6-65, Cl. 144-209.
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- Pembroke, George F., and J. G. E. Hillman, to Molins Machine Co. Ltd. Apparatus for conveying cigarettes. 3,203,431, 8-31-65, Cl. 131-27.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Articulation for the bonnet of an automobile. 3,171,156, 3-2-65, Cl. 16-135.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Mounting of wheel suspension arms. 3,173,707, 3-16-65, Cl. 280-124.
- Peras, Lucien, to Regie Nationale des Usines Renault. Bumpers of vehicles. 3,173,717, 3-16-65, Cl. 293-73.
- Peras, Lucien, to Regie Nationale des Usines Renault. Synchronizing devices. 3,175,412, 3-30-65, Cl. 74-339.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Segmental sealing blades for rotary engines. 3,175,503, 3-30-65, Cl. 103-130.
- Peras, Lucien, to Regie Nationale des Usines Renault. Scrap conveyors for metal working workshops. 3,175,677, 3-30-65, Cl. 198-224.
- Peras, Lucien, to Regie Nationale des Usines Renault. Accelerator pedals of automobile vehicles. 3,178,962, 4-20-65, Cl. 74-561.
- Peras, Lucien, to Regie Nationale des Usines Renault. Engine propulsion units. 3,178,964, 4-20-65, Cl. 74-645.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Disc brakes. 3,181,654, 5-4-65, Cl. 188-73.
- Peras, Lucien, to Regie Nationale des Usines Renault. Means for converting a tail-gate estate car into a light delivery van or a passenger car. 3,181,911, 5-4-65, Cl. 296-37.
- Peras, Lucien, to Regie Nationale des Usines Renault. Poppet valves of internal combustion engines. 3,185,142, 5-25-65, Cl. 123-188.
- Peras, Lucien, to Regie Nationale des Usines Renault. Packing devices comprising fixed and movable elements for rotary engines. 3,185,386, 5-25-65, Cl. 230-145.
- Peras, Lucien, to Regie Nationale des Usines Renault. Two-position supporting pegs made of flexible material, more particularly for use in motor vehicles. 3,185,427, 5-25-65, Cl. 248-309.
- Peras, Lucien, to Regie Nationale des Usines Renault. Collapsible supports for spare wheel of vehicles. 3,187,914, 6-8-65, Cl. 214-451.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Packings for rotary engines. 3,193,186, 7-6-65, Cl. 230-145.
- Peras, Lucien, to Regie Nationale des Usines Renault. Trim correcting devices for vehicles equipped with a hydraulic correction suspension system. 3,194,579, 7-13-65, Cl. 280-104.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic chain tensioning devices. 3,198,025, 8-3-65, Cl. 74-242.11.
- Peras, Lucien, to Regie Nationale des Usines Renault. Timing devices for rotary engines. 3,199,495, 8-10-65, Cl. 123-8.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Rotary engines. 3,200,794, 8-17-65, Cl. 123-8.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Bogey secondary suspensions. 3,212,460, 10-19-65, Cl. 105-453.
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- Peras, Lucien, to Regie Nationale des Usines Renault. Rotary diesel engines. 3,216,404, 11-9-65, Cl. 123-8.

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- Peras, Lucien, to Regie Nationale des Usines Renault. Railway car truck with elastic torsion blocks. 3,220,358, 11-30-65, Cl. 105-224.1.
- Peras, Lucien, to Regie Nationale des Usines Renault. Rotary engines with rotating distributors. 3,224,421, 12-21-65, Cl. 123-8.
- Peras, Lucien, and M. Suisse, to The Anderson Co. Windshield wipers. 3,224,028, 12-21-65, Cl. 15-250.42.
- Peray, Robert: See—
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- Perazone, Hugh L., to Cenco Instruments Corp. Large high vacuum valve. 3,216,694, 11-9-65, Cl. 251-158.
- Perbohner, Aaron T., R. L. Baumel, and H. A. Hamm, to Durallium Products Corp. Dental mold pattern and method of making same. 3,218,374, 11-16-65, Cl. 264-17.
- Percival, Douglas F., and W. A. Sweeney, to California Research Corp. Detergent briquette. 3,172,859, 3-9-65, Cl. 252-137.
- Percival, William S., to Electric & Musical Industries Ltd. Function generators especially for colour television receivers. 3,226,475, 12-28-65, Cl. 178-5.4.
- Percy, Oran K.: See—
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- Percy, Tom. Musical instrument with audio signal to force translator. 3,195,389, 7-20-65, Cl. 84-5.
- Perdue, Benton L., to Esco Corp. Rock crusher. Re. 25,799, 6-15-65, Cl. 241-291.
- Perdue, Jack, and A. C. Aitchison, to Electro-Hydraulics Ltd. Retractable undercarriage. 3,188,026, 6-8-65, Cl. 244-102.
- Perdue, James B., and L. E. Tate. Silage distributor. 3,184,081, 5-18-65, Cl. 214-17.
- Pereda, Celedonio V. Power transmission system. 3,205,653, 9-14-65, Cl. 60-19.
- Perelman, Melvin, to Eli Lilly and Co. Stable amino-substituted lactams. 3,194,801, 7-13-65, Cl. 260-239.
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- Peretick, Edward C., to United States Steel Corp. Apparatus for spray quenching. 3,208,742, 9-28-65, Cl. 266-4.
- Peretti, Leonard G., to Arvey Corporation. Display device. 3,163,948, 1-5-65, Cl. 40-30.
- Peretz, Richard, to Ateliers de Constructions Electriques de Charleroi (ACEC). Non-linear functional operator. 3,173,024, 3-9-65, Cl. 307-88.5.
- Peretz, Richard, to Ateliers de Constructions Electriques de Charleroi (ACEC). Series-parallel transistor amplifier. 3,173,098, 3-9-65, Cl. 330-24.
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- Pereue, Joseph H., B. F. Abbott, E. M. Bacon, and C. W. MacMillan, to Bear Mfg. Co. Wheel alignment indicator. 3,222,794, 12-14-65, Cl. 33-203.18.
- Perez, Gabriel. Centrifugal air compressor. 3,215,342, 11-2-65, Cl. 230-211.
- Perez, Guillermo, and L. Gryk, to Royal McBee Corp. Record sensing and feeding apparatus. 3,201,570, 8-17-65, Cl. 235-61.11.
- Perez, Jose: See—
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- Perez, Mario, Jr.: See—
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- Perfect Circle Corp.: See—
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Brenneke, Arthur M. 3,197,243.
Brenneke, Arthur M. 3,198,531.
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- Perham, James A., to Albertson & Co., Inc. Safety wheel assembly. 3,210,892, 10-12-65, Cl. 51-168.
- Perhink, Fred. Weed puller. 3,180,429, 4-27-65, Cl. 172-456.
- Peri, Cesare A., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing the N-monomethylamide of O,O-dimethyldithiophosphorylacetic acid. 3,201,442, 8-17-65, Cl. 260-461.
- Peri, John B., to California Research Corp. Stable metal sols and method for producing the same. 3,180,835, 4-27-65, Cl. 252-309.
- Perieres, Rene: See—
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- Perkin-Elmer Corp., The: See—
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- Perkins, Beauregard, Jr., and W. F. Jackson, to United States of America, Army. Horizontal displacement meter. 3,164,983, 1-12-65, Cl. 73-71.
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- Perkins, Charles H., and E. N. Caldwell, to Robertshaw Controls Co. Transparent instrument case closure. 3,187,582, 6-8-65, Cl. 73-431.
- Perkins, Charles M., and T. V. McNamara, to Eaton Mfg. Co. Control for a main and auxiliary transmission system. 3,171,300, 3-2-65, Cl. 74-745.
- Perkins, Corles M., to Minneapolis-Honeywell Regulator Co. Aircraft control apparatus. 3,171,279, 3-2-65, Cl. 73-178.
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- Perkins, Donald W., and J. A. Wainwright, to General Electric Co. True three-dimension display system. 3,202,985, 8-24-65, Cl. 343-7.9.
- Perkins, F., Ltd.: See—
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- Perkins, Glenn H., and L. W. McFall, to Oxford Paper Co. Paper offset plate for photographic transfer and direct image printing. 3,181,460, 5-4-65, Cl. 101-149.2.
- Perkins, Gordon O.: See—
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- Perkins, Hubert. Fluid drive automatic transmission. 3,220,187, 11-30-65, Cl. 60-54.
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- Perkins, James M., P. F. Graf, and F. R. Braum, to United States of America, Navy. Method of making an expendable electrical connector. 3,184,832, 5-25-65, Cl. 29-155.5.
- Perkins, Joe. Internal combustion engine. 3,177,856, 4-13-65, Cl. 123-68.
- Perkins, John L.: See—
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- Perkins Pipe Linings Inc.: See—
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- Perkins, Rita M.: See—
Drake, George L., Jr., Perkins, and Reeves. 3,197,269.
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- Perkins, Wallace W., to General Motors Corp. Measurement of inaccuracies in a surface of revolution. 3,207,979, 9-21-65, Cl. 324-61.
- Perkins, Warren E., to Union Carbide Corp. Thermally insulated bulk storage container. 3,168,362, 2-2-65, Cl. 312-214.
- Perkins, Warren E., to Perkins Pipe Linings Inc. Trowel for pipe lining material. 3,188,710, 6-15-65, Cl. 25-38.
- Perkins, Warren E., to Union Carbide Corp. Protective handle for thermally insulated bulk storage container. 3,191,794, 6-29-65, Cl. 220-14.
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- Perl, Emilie, to G. M. Pfaff, AG. Sewing machine for overcasting. 3,192,887, 7-6-65, Cl. 112-162.
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- Perry, Robert H., Jr., to Esso Research and Engineering Co. Reduction of 1,5,9-cyclododecatriene to cyclododecene with lithium metal in ethyl amine. 3,173,664, 3-16-65, Cl. 260-666.
Perry, Robert H., Jr., to Esso Research and Engineering Co. Process for the silver oxide catalyzed oxidation of unsaturated cyclic ozonides. 3,202,704, 8-24-65, Cl. 260-533.
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Perry, Russell W., to The Firestone Tire & Rubber Co. Process for the polymerization of ethylenically unsaturated compound in the presence of a pentahydrocarbon ammonium compound and a heavy metal compound. 3,205,209, 9-7-65, Cl. 260-93.7.
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Perry, Walter J. Body massaging and scrubbing appliance. 3,196,867, 7-27-65, Cl. 128-56.
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Perry, William H., Jr., to Cardinal Scale Mfg. Co. Warning range attachment for scale indicators. 3,174,566, 3-23-65, Cl. 177-166.
Perry, William M., to General Aniline & Film Corp. Copolymers of N-vinyl-2-pyrrolidones and vinyl esters as emulsions or latices. 3,166,525, 1-19-65, Cl. 260-29.6.
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Perry, Winthrop L., to Abbott Machine Co., Inc. Automatic winding machine. 3,204,884, 9-7-65, Cl. 242-35.5.
Perry, Winthrop L., to Abbott Machine Co., Inc. Automatic winding machine. 3,210,022, 10-5-65, Cl. 242-35.5.
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Perschke, Louis. Hand guard for gymnasts and others. 3,178,724, 4-20-65, Cl. 2-16.
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Persell, Burton E.: See—
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Persson, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Device for indicating the ceasing of superconductivity. 3,214,637, 10-26-65, Cl. 317-9.
Persson, Erik O., to Torsten Neldas. Rock drilling device. 3,181,434, 5-4-65, Cl. 92-107.
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Persson, Knut A. W., to Broderna Hedlund, AB. Guide device for tubes during welding operation. 3,181,762, 5-4-65, Cl. 228-49.
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Persson, Sven E. Apparatus for machining elongated sections of material. 3,198,052, 8-3-65, Cl. 83-516.
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Peter, Oskar E. and L. Annular spring with closed inner and outer rings. 3,191,923, 6-29-65, Cl. 267-9.
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Peter, Philip W. Process for leaching uranium-bearing ores. 3,183,058, 5-11-65, Cl. 23-14.5.
Peter, Robert G., to Halliburton Co. Formation fluid sampler. 3,217,804, 11-16-65, Cl. 166-63.
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- Peters, Allan, Denny. 3,185,478.
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- Peters, Arthur C., to United-Carr Inc. Filler neck and closure. 3,211,320, 10-12-65, Cl. 220-40.
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- Peters, Charles J., to Sylvania Electric Products Inc. Method of making a magnetic recording head structure. 3,224,074, 12-21-65, Cl. 29-155.5.
- Peters, Christian J. A., to E. I. du Pont de Nemours and Co. Coating compositions containing an amine and a metallic drier. 3,198,118, 7-20-65, Cl. 260-22.
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- Peters, Stanley J., Krueger, and Peters. 3,210,653.
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- Peters, Eugene G.: See—
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- Peters, Prelmut, to Varta Aktiengesellschaft. Permanently sealed storage battery. 3,174,878, 3-23-65, Cl. 136-6.
- Peters, Grace A., and F. C. Schaefer, to American Cyanamid Co. 2,4,6-trisubstituted-s-triazines and process for preparing same. 3,169,963, 2-16-65, Cl. 260-248.
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- Peters, Arnold, Walter E., De Roze, Jennings, and Peters. 3,221,477.
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- Peters, Wicker, Dan B., and Peters. 3,214,330.
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- Peters, John. Safety wheel. 3,208,798, 9-28-65, Cl. 301-38.
- Peters, John, Jr. Safety container for toxic materials. 3,185,534, 5-25-65, Cl. 312-209.
- Peters, Josef. Tubular oil-heating furnace for vehicles not running on rails. 3,186,390, 6-1-65, Cl. 126-94.
- Peters, Joseph. Drum operating mechanism. 3,195,391, 7-20-65, Cl. 34-422.
- Peters, Leo. Patty package in combination with serving means. 3,183,101, 5-11-65, Cl. 99-171.
- Peters, Louis H., H. S. Cloyd, R. W. Welch, and R. T. Mangold, to Union Carbide Corp. Molding process. 3,176,057, 3-30-65, Cl. 264-266.
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- Peters Metal Fabricating Co.: See—
- Peters, Raymond S. 3,200,775.
- Peters, Philip H., and D. A. Wilbur, to General Electric Co. Tunable magnetron apparatus. 3,201,712, 8-17-65, Cl. 331-90.
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- Peters, Ray J., and P. J. Campbell. Surveyor's clamp. 3,216,116, 11-9-65, Cl. 33-137.
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- Peters, Stanley P. Toy crank propelled truck. 3,209,490, 10-5-65, Cl. 46-210.
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- Peters, Timothy V., Jr., to E. I. du Pont de Nemours and Co. Polyurethane prepolymer chain-extended with an N-lower alkyl amino-bis-lower alkyl amine. 3,180,853, 4-27-65, Cl. 260-77.5.
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- Petersen, Carl E. Scaffold. 3,207,261, 9-21-65, Cl. 182-129.
- Petersen, Charles N., to Ex-Cell-O Corp. Electromagnetic transducer head actuators. 3,218,873, 11-23-65, Cl. 74-99.
- Petersen, Christian, W. L. Becker, and E. A. Allemeler, to Petersen Mfg. Co., Inc. Chain clamps. 3,192,804, 7-6-65, Cl. 81-609.
- Petersen, Earl J., to United States of America, Army. Pulse-generating counter with successive stages comprising blocking oscillator and "AND" gate forming closed and open loops. 3,184,612, 5-18-65, Cl. 307-88.5.
- Petersen, Earl J., to United States of America, Army. Synthetic video generator. 3,188,628, 6-8-65, Cl. 343-5.
- Petersen, Egon N.: See—
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- Petersen, James M., D. D. Reed, and H. D. Kluge, deceased (H. E. Kluge, administratrix), to Texaco Inc. Dialkyl hydrocarbonthiophosphonoxalkoxyhydroxyhexahydrophthalates and process for making same. 3,201,439, 8-17-65, Cl. 260-461.
- Petersen, James M., H. D. Kluge, deceased (H. E. Kluge, administratrix), and D. D. Reed, to Texaco Inc. Mono- and bis-hydrocarbonthiophosphonoxalkoxyhydroxyalkyl hydrocarbylamines. 3,201,441, 8-17-65, Cl. 260-461.
- Petersen, James M., D. D. Reed, and H. D. Kluge, deceased (H. E. Kluge, administratrix), to Texaco Inc. Hydrocarbonthiophosphonoxalkoxyhydroxyalkoxyalkyl hydrocarbylamines. 3,213,123, 10-19-65, Cl. 260-461.
- Petersen, John F., to Honeywell Inc. Control apparatus. 3,225,222, 12-21-65, Cl. 307-101.
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- Petersen, Kenneth M., to Rexall Drug and Chemical Co. Metering valve for fluids under pressure. 3,190,508, 6-22-65, Cl. 222-394.
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- Petersen, Niel R.: See—
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- Petersen, Ove E.: See—
- Johnson, Arthur R., and Petersen. 3,192,464.
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- Ross, Sidney D., Petersen, and Finkelstein. 3,214,650.
- Petersen, Robert E. A., and W. J. Frey, to E. I. du Pont de Nemours and Co. Process for isolating chloroprene polymers from aqueous dispersions thereof. 3,207,828, 9-21-65, Cl. 264-175.
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- Müller, Erwin, Bayer, and Petersen. 3,184,502.
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- Petersen, Thorvald K., and P. L. Smith, to Douglas Aircraft Co., Inc. Air operated cargo loading system. 3,209,029, 10-5-65, Cl. 214-83.28.
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- Petersen, Adolphe C. Air and fuel charging means for four-cycle engines of mono-valve type. 3,183,601, 5-18-65, Cl. 60-13.
- Petersen, Adolphe C. Automotive propulsion system for vehicles. 3,191,707, 6-29-65, Cl. 180-7.
- Petersen, Adolphe C. Alternative sustentation system for aircraft. 3,223,355, 12-14-65, Cl. 244-12.
- Petersen, Allen R., to Welduction Corp. Crystal diode heat dissipating mounting. 3,204,157, 8-31-65, Cl. 317-234.
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- Petersen, Arnold E. Auxiliary seat for child. 3,170,727, 2-23-65, Cl. 297-253.
- Petersen, Arthur W. Paperboard carton. 3,184,140, 5-18-65, Cl. 229-23.
- Petersen, Axel H. Vibrator. 3,177,953, 4-13-65, Cl. 173-12.
- Petersen, Axel H. Vibrator or like apparatus operating on elastic fluid. 3,216,328, 11-9-65, Cl. 91-52.
- Petersen, Axel H. Force-applying apparatus. 3,216,320, 11-9-65, Cl. 91-52.
- Petersen, Bulow A.: See—
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- Petersen, Charles A.: See—
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- Petersen, Chester H. Adjustable pipe nipple. 3,188,120, 6-8-65, Cl. 285-175.
- Petersen, Dana. Culinary scraper. 3,178,747, 4-20-65, Cl. 15-236.
- Petersen, Dana. Open-end wrench with magnetized moveable tongue. 3,215,009, 11-2-65, Cl. 81-125.
- Petersen, Dean M., to Eastman Kodak Co. Cover plate assembly. 3,205,800, 9-14-65, Cl. 95-11,000.
- Petersen, Dean M., to Eastman Kodak Co. Camera for flash photography. 3,205,801, 9-14-65, Cl. 95-11.5.
- Petersen, Dean M., and C. W. Michatek, to Eastman Kodak Co. Lamp socket for photoflash units. 3,173,615, 3-16-65, Cl. 240-13.
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- Barr, Harold N., and Peterson. 3,202,581.
- Petersen, Donald T., to Bartlett Engineering Co., Inc. Longitudinal folding device for two strips. 3,165,310, 1-12-65, Cl. 270-41.
- Petersen, Edward C., and W. H. Boblitz, to Birdsboro Corp. Mill layout. 3,187,541, 6-8-65, Cl. 72-230.
- Petersen, Edwin F. Air cooled vibrator. 3,177,731, 4-13-65, Cl. 74-87.
- Petersen, Edwin F. Resilient wear resistant blow tube. 3,180,305, 4-27-65, Cl. 135-134.
- Petersen, Edwin F. Shaker apparatus. 3,185,323, 5-25-65, Cl. 214-83.3.
- Petersen, Edwin F. Method of making a sand retaining blow tube. 3,200,479, 8-17-65, Cl. 260-835.
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- Petersen, Everett A., and H. W. 3,215,450.
- Petersen, Elvin D., and R. P. Valenti, to Motorola, Inc. Time interval measuring system employing vernier digital means and coarse count ambiguity resolver. 3,218,553, 11-16-65, Cl. 324-68.
- Petersen, Eric R. Support means for a plurality of horizontal bars. 3,204,904, 9-7-65, Cl. 248-125.
- Petersen, Eric R. Multiple sheet handling device. 3,206,042, 9-14-65, Cl. 214-8.5.
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- Petersen, Frederick J., to General Motors Corp. Accelerometer. 3,167,965, 2-2-65, Cl. 73-492.
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- Pitner, Alfred, 1/2 to Nadella S.A. Method and apparatus for forming cages for roller bearings. 3,221,390, 12-7-65, Cl. 29-148.4.
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- Potterberg, Rolfe, to Peen Plate, Inc. Preparation of metallic surfaces for cladding with comminuted metals and the products so clad. 3,164,448, 1-5-65, Cl. 29-194.
- Potter, Carl R., and L. V. Reaume, to Sperry Rand Corp. Power transmission. 3,206,218, 9-14-65, Cl. 277-75.
- Potter, Charles, and J. W. Lindenthal, to Engelhard Industries, Inc. Method of forming quartz fibers from extruded rods. 3,177,057, 4-6-65, Cl. 65-7.
- Potter, Charles C., to Thermal Dynamics Corp. Electric arc torch. 3,171,010, 2-23-65, Cl. 219-75.
- Potter, David M.: See—
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- Potter, David M. Quick-disconnect coupling. 3,220,757, 11-30-65, Cl. 287-104.
- Potter Electric Signal Co.: See—
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- Potter, Frank J.: See—
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- Potter, Frank J., to General Dynamics Corp. Test method for measuring the forward dynamic time constant of diodes. 3,182,258, 5-4-65, Cl. 324-158.
- Potter, Frederick M., to The Bendix Corp. Rotor construction of cascaded generators. 3,179,872, 4-20-65, Cl. 321-62.
- Potter, Frederick M., and D. H. Hopkins, to The Bendix Corp. Heatsinks and rectifier assembly for a dynamoelectric machine. 3,196,317, 7-20-65, Cl. 317-100.
- Potter, Galen D., and W. T. Peterson, to H. S. Crocker Co., Inc. Method and apparatus for photocopying. 3,186,097, 6-1-65, Cl. 33-1845.
- Potter, Harvey W. Combination bench and table set. 3,189,379, 6-15-65, Cl. 297-157.
- Potter, Horace W., to Lukens Steel Co. Apparatus for forming a hot top. 3,210,810, 10-12-65, Cl. 22-9.
- Potter Instrument Co., Inc.: See—
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Blom, Roy A. 3,179,318.
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Doersam, Charles H., Jr. 3,209,332.
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- Potter, James A. Minimizing oscillation while automatically searching for null point by employing array of resistors featuring identical resistors. 3,211,991, 10-12-65, Cl. 323-75.
- Potter, James A. Weighing scale with servo-operated rebalancing system and independent circuit for remote read-out device. 3,224,518, 12-21-65, Cl. 177-210.
- Potter, James C., to C.A.V. Ltd. Hydraulic governors. 3,209,613, 10-5-65, Cl. 74-472.
- Potter, James M., to Banker's Life & Casualty Co. Pulp molding machine with molds forming an endless chain. 3,190,791, 6-22-65, Cl. 162-219.
- Potter, John T., to Potter Instrument Co., Inc. Photosensitive apparatus for measuring coordinate distances. 3,184-600, 5-18-65, Cl. 250-237.
- Potter, John T., G. E. Comstock, 3d, and A. Gabor, to Potter Instrument Co., Inc. Digital recording systems utilizing ternary, N bit binary and other self-clocking forms. 3,226,685, 12-28-65, Cl. 340-1725.
- Potter, Louis E., to Radio Corp. of America. Wide angle phase shifter or modulator. 3,196,368, 7-20-65, Cl. 332-30.
- Potter, Martin C., to Potters Insulations Ltd. Internal combustion engines. 3,186,383, 6-1-65, Cl. 123-11.
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- Potter, Nicholas B., to Union Carbide Corp. Moisture resistant cellulosic packaging. 3,172,593, 3-9-65, Cl. 229-35.
- Potter, Nicholas B., to Union Carbide Corp. Package. 3,185-300, 5-25-65, Cl. 206-80.
- Potter, Nicholas B., to Union Carbide Corp. Quick open display package. 3,215,267, 11-2-65, Cl. 206-78.
- Potter, Nicholas B., to Union Carbide Corp. Packaging for a plurality of containers. 3,217,874, 11-16-65, Cl. 206-85.
- Potter, Nicholas B., and P. C. Shepard, to Union Carbide Corp. and St. Regis Paper Co. Multi-container packaging. 3,219-183, 11-23-65, Cl. 206-65.
- Potter, Norman M.: See—
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- Potter, Olin E., to Worthington Corp. Suspension system for track type vehicles. 3,177,961, 4-13-65, Cl. 180-95.
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- Potter, Ronald, to United Kingdom Atomic Energy Authority. Nuclear reactor core structure. 3,175,954, 3-30-65, Cl. 176-61.
- Potter, Rossiter R., R. Ullman, and G. A. Fuller, to AMP Inc. Lead connection for printed circuit board. 3,185,952, 5-25-65, Cl. 339-17.

- Potter, Roy F., and G. G. Kretschmar, to United States of America, Navy. Vacuum evaporator apparatus. 3,211,128, 10-12-65, Cl. 118-49.1.
- Potter, William G., to Edwin L. Wiegand Co. Heating-ventilating device. 3,165,625, 1-12-65, Cl. 219-369.
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- Potter, Martin C.: 3,186,383.
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- Pottharst, John E., Jr. Forced circulation evaporator. 3,192,130, 6-29-65, Cl. 202-160.
- Potthoff, Jack R., to United States of America, Navy. Receiver distribution system. 3,208,071, 9-21-65, Cl. 343-853.
- Potthoff, Robert E., and J. F. Wilson, to United States of America, Atomic Energy Commission. Liquid level indicator. 3,164,991, 1-12-65, Cl. 73-297.
- Pottle, Ralph K., to American Can Co. Method of forming pull string containers. 3,165,885, 1-19-65, Cl. 93-94.
- Pottmeyer, Edward W., to Blaw-Knox Co. Furnace charging method and apparatus. 3,211,304, 10-12-65, Cl. 214-30.
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- Wallace, Jeffrey J.: 3,163,889.
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- Potts, Herbert J., 50% to D. W. Duffy. Inflatable devices. 3,181,184, 5-4-65, Cl. 9-340.
- Potts, Horace T., Co.: See—
- Armstrong, David E., and Roeser. 3,191,286.
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- Lehr, James R., Potts, and Hand. 3,208,821.
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- Bolton, Douglas H. H., Pawling, and Potts. 3,217,605.
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- Bolton, Douglas H. H., and Potts. 3,196,756.
- Bolton, Douglas H. H., and Potts. 3,202,058.
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- Potts, Michael C., and D. H. H. Bolton, to Dowty Mining Equipment Ltd. Roof support assemblies. 3,198,087, 8-3-65, Cl. 91-189.
- Potts, Michael C., and D. H. H. Bolton, to Dowty Mining Equipment Ltd. Mining apparatus. 3,217,603, 11-16-65, Cl. 91-1.
- Potts, Willis J., Jr., and C. R. Pfeiffer, to The Dow Chemical Co. Cross-linking of polyethylene and polypropylene by ultraviolet irradiation in the presence of anthrone. 3,219,566, 11-23-65, Cl. 204-162.
- Potye, John J., Drapery rail apparatus. 3,222,710, 12-14-65, Cl. 16-87.2.
- Potye, John J., Pleat forming apparatus. 3,223,148, 12-14-65, Cl. 160-348.
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- Powell, Harry E.: 1/2 to G. A. Gust, 1/4 to R. G. Irish, and 1/4 to M. M. Fouch. Die casting apparatus. 3,191,246, 6-29-65, Cl. 22-68.
- Poult, Robert. Turbo-compressors. 3,179,328, 4-20-65, Cl. 230-116.
- Poullart, Willy H. P., and G. Van Mechelen, to International Standard Electric Corp. Electrical sorting system. 3,201,758, 8-17-65, Cl. 340-172.5.
- Poulos, Leo, to United States of America, Navy. Flow meter. 3,165,928, 1-19-65, Cl. 73-194.
- Poulos, Nicholas M.: See—
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- Poulson, Howard E. Rotary engine. 3,215,128, 11-2-65, Cl. 123-15.
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- Pound, Maurice A., to Raleigh Industries Ltd. Inflating devices for vehicle tires. 3,168,015, 2-2-65, Cl. 92-245.
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- Pounds, Clifford C. Cover for pickup trucks. 3,180,674, 4-27-65, Cl. 296-100.
- Pounds, Lewis C., to American Cyanamid Co. Laminate. 3,194,725, 7-13-65, Cl. 161-165.
- Poundstone, William N., to Christopher Coal Co. Troughing idler roller assembly for belt conveyors. 3,194,387, 7-13-65, Cl. 198-192.
- Poundstone, William N., to Consolidation Coal Co. Belt conveyor. 3,200,939, 8-17-65, Cl. 198-192.
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- Poupitch, Ougljesa J., to Illinois Tool Works, Inc. Carrier package and method of assembly. 3,184,148, 5-18-65, Cl. 229-52.
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- Poupitch, Ougljesa J., to Illinois Tool Works, Inc. Lock-washer. 3,196,919, 7-27-65, Cl. 151-38.
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- Powanda, Thomas M., and E. J. Hensch, to Celanese Corp. of America. Polyol polyurethane foams with trimethylolpropane based hydroxyl supplying components. 3,208,957, 9-28-65, Cl. 260-2.52804.
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- Preston, Jack, W. A. H. Huffman, and R. W. Smith, to Monsanto Co. Polycarbonamides from organic dicarboxylic acids and bis(aminopolyoxyary)alkanes and process for producing the same. 3,197,434, 7-27-65, Cl. 260-47.
- Preston, Jack, and W. A. H. Huffman, to Monsanto Co. Polymers from bis-phenolamides. 3,205,199, 9-7-65, Cl. 260-47.
- Preston, Jack, and R. W. Smith, to Monsanto Co. Process for preparing poly-para-aminobenzoic acid. 3,225,011, 12-21-65, Cl. 260-78.
- Preston, John: See—
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- Preston, John, to Radio Corp. of America. Personal microphone line transformer. 3,194,887, 7-13-65, Cl. 179-1.
- Preston, John M. Liquid fertilizer. 3,183,073, 5-11-65, Cl. 71-1.
- Preston, Merrill W., to Caloric Corp. Combined phone cabinet and writing desk. 3,193,341, 7-6-65, Cl. 312-245.
- Preston, Mitchell T.: See—
Hendershot, Charles E., and Preston. 3,177,855.
- Preston, Oliver: See—
Grant, Nicholas J., and Preston. 3,179,515.
- Preston, Peter J., to American Cyanamid Co. Method for cooling a gaseous suspension of titanium dioxide. 3,217,787, 11-16-65, Cl. 165-1.
- Preston, Richard J., to United Aircraft Corp. Electromagnetic artificial heart having control means responsive to changes in blood pressure and body respiration rate. 3,206,768, 9-21-65, Cl. 3-1.
- Preston, Richard J., to United Aircraft Corp. Molecular physiological monitoring system. 3,212,496, 10-19-65, Cl. 128-2.1.
- Preston, Richard J., and V. S. Peterson, to United Aircraft Corp. Velocity control system for following irregular patterns. 3,207,407, 9-21-65, Cl. 228-7.
- Preston, Troy C., and J. J. Wetzler, to F. W. Means & Co. Non-trip non-skid floor mat assembly and a mat holder therefor. 3,168,757, 2-9-65, Cl. 15-217.
- Preston, Wallace M.: See—
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- Preston, Walter G., to Tulareloft, Inc. Testing machine for safety seat belts. 3,224,258, 12-21-65, Cl. 73-95.
- Preston, William C.: See—
Taylor, Richard P., and Preston. 3,167,003.
- Prestowitz, Clyde V., to Arocos Corp. Eddy current testing method of distinguishing similar welding electrodes having dissimilar coatings. 3,222,594, 12-7-65, Cl. 324-40.
- Prestridge, Hamilton B.: See—
Norman, Vello, and Prestridge. 3,202,537.
- Prestwood, Franklin H., to United States of America, Air Force. Target-carrier aircraft protective system. 3,209,349, 9-28-65, Cl. 343-65.
- Presunka, Mary: See—
Presunka, Peter. 3,198,288.
- Presunka, Peter. 3,198,544.
- Presunka, Peter, to M. Presunka. Impact energy absorber. 3,198,288, 8-3-65, Cl. 188-1.
- Presunka, Peter, to S. Presunka. Vehicle passenger's protection device. 3,198,543, 8-3-65, Cl. 280-150.
- Presunka, Peter, 15% to M. Presunka, for W. and S. Presunka. Protection barrier for vehicle passengers. 3,198,544, 8-3-65, Cl. 280-150.
- Presunka, Peter. Crossed lattice wall structure. 3,222,832, 12-14-65, Cl. 52-207.
- Presunka, Peter, and J. F. Liston, 1/4 to S. Presunka. Safety crash tray for vehicles. 3,203,709, 8-31-65, Cl. 280-150.
- Presunka, Steve: See—
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- Presunka, Wesley: See—
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- Prete, Ernest, Jr., to Brown-Line Corp. Ratchet buckle. 3,175,806, 3-30-65, Cl. 254-164.
- Pretko, John E., to E. I. du Pont de Nemours and Co. Aqueous epoxy resin composition yielding antistatic soil resistant finish on textiles. 3,175,987, 3-30-65, Cl. 260-29.6.
- Pretot, Armand V., Jr., to Rapistan-Keystone, Inc. Detection device for conveyors. 3,203,531, 8-31-65, Cl. 108-40.
- Preu, Hans L.: See—
Penote, Vincent S., and Preu. 3,203,119.
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- Preud'homme, Jean, B. Vuillemin, and Y. Charpentier, to Rhone Poulenc S.A. Recovery of 6-amino-penicillanic acid. 3,219,669, 11-23-65, Cl. 260-306.7.
- Preugschas, Helmut: See—
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- Preuss, Albert F.: See—
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- Preusse, William C., to Olin Mathieson Chemical Corp. Process for the preparation of aziridine phosphoryl dihalides. 3,168,514, 2-2-65, Cl. 260-239.
- Preusser, Henry M., and E. B. Denton, to Weyerhaeuser Co. Heater for pavement markers. 3,185,455, 5-25-65, Cl. 263-11.
- Prevaillet, Val A., Jr., to Sperry Rand Corp. Control systems utilizing tuning forks. 3,197,714, 7-27-65, Cl. 331-1.
- Previc, Edward P., to Consolidation Coal Co. Preparation of thiocyanophenols. 3,202,690, 8-24-65, Cl. 260-454.
- Previte, Dominick L., to Eaton Mfg. Co. Closure device. 3,186,580, 6-1-65, Cl. 220-44.
- Previte, Dominick L., to Eaton Mfg. Co. Closure device. 3,203,578, 8-31-65, Cl. 220-44.
- Previti, Frank R., and O. Shames, to United States of America, Navy. Frequency synthesizer employing plural input sources and plural switching means producing wide range of output frequencies. 3,207,993, 9-21-65, Cl. 328-14.
- Prew, Lionel R., to Shell Oil Co. Supported liquefied gas storage tank. 3,206,057, 9-14-65, Cl. 220-15.
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- Prewitt, David. Leaf curing machinery. 3,224,603, 12-21-65, Cl. 214-5.5.
- Prewitt, Thomas A., to General Motors Corp. Headlight reminder circuit. 3,214,730, 10-26-65, Cl. 340-52.
- Preziost, Joseph R., to Elastic Stop Nut Corp. of America. Rotary fastener. 3,220,078, 11-30-65, Cl. 24-221.
- Priapi, Joseph J., to United Aircraft Corp. Ignition device. 3,172,255, 3-9-65, Cl. 60-35.6.
- Priaroglia, Paolo G., to Pirelli Societa per Azioni. Process and apparatus for the manufacture of high tension cables. 3,196,060, 7-20-65, Cl. 156-56.
- Priaroglia, Paolo G., to Pirelli Societa per Azioni. High-tension cable insulated with synthetic tape and oil. 3,223,773, 12-14-65, Cl. 174-25.
- Pribyl, Edward J., and C. F. Turk, to Olin Mathieson Chemical Corp. Cycloocteno-pyrimidines. 3,183,691, 5-25-65, Cl. 260-256.4.
- Pribyl, Edward J., and C. F. Turk, to Olin Mathieson Chemical Corp. 3-substituted-5,6,7,8,9,10-hexahydrocycloocta [c] pyridazines. 3,205,230, 9-7-65, Cl. 260-250.
- Pribyl, John P. Fountain displays. 3,165,966, 1-19-65, Cl. 84-464.
- Pribyl, Robert, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Process of hardening alloy steels. 3,222,229, 12-7-65, Cl. 148-143.
- Price, Albert E., to General American Transportation Corp. Railway hopper cars. 3,191,785, 6-29-65, Cl. 214-83.28.

- Price, Albert R., to Community Industries, Ltd. Device for tilling. 3,180,428, 4-27-65, Cl. 172-42.
- Price, Albert R., to Community Industries, Ltd. Cap. 3,199,716, 8-10-65, Cl. 220-44.
- Price Brothers Co.: See—
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- Price, Charles R.: See—
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- Price, Daniel D., and E. E. Presby, to Rainbow Plastic. Spot sander for swimming pools. 3,173,334, 3-30-65, Cl. 51-393.
- Price, David B., to Westinghouse Electric Corp. Detachable thermoresponsive switch control means. 3,209,105, 9-28-65, Cl. 200-136.5.
- Price, David B., to Westinghouse Electric Corp. Beverage maker. 3,217,923, 11-16-65, Cl. 220-82.
- Price, David S., to E. I. du Pont de Nemours and Co. Mixed fertilizers having a urea source of nitrogen in excess of a nitrate source. 3,186,825, 6-1-65, Cl. 71-28.
- Price, Donald G.: See—
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- Price, Earl R., to The Bendix Corp. Automatic shoe retractor. 3,189,131, 6-15-65, Cl. 188-78.
- Price, Edwin A. Tool for sealing an aperture in a wall. 3,198,039, 8-3-65, Cl. 81-15.6.
- Price, Eldon N., to Douglas Aircraft Co., Inc. Trailing static source for airspeed calibration. 3,214,115, 10-26-65, Cl. 244-1.
- Price, Eugene W., to Allis-Chalmers Mfg. Co. Pellet of iron ore and flux, and method for making same. 3,169,852, 2-16-65, Cl. 175-3.
- Price, Eugene W., to Allis-Chalmers Mfg. Co. Pellet of iron ore and flux, and method for making same. 3,188,195, 6-8-65, Cl. 75-5.
- Price, Everett R., B. F. Butler, J. L. Whitcomb, and J. F. Prescott, to Kinetics Corp. Switch having two pairs of contacts, one pair being formed of material having higher resistivity characteristic than the other pair. 3,205,332, 9-7-65, Cl. 200-166.
- Price, Forest W., and H. F. Koopmann, to Fibreboard Paper Products Corp. Fire resistant asphalt roofing and method of manufacture. 3,193,439, 7-6-65, Cl. 161-93.
- Price, Frank B.: See—
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- Price, Frederick J., Jr., to Doryce Appleton. Agitator for foods of a liquid form containing solids. 3,172,645, 3-9-65, Cl. 259-107.
- Price, Frederick J., Jr., to D. Appleton. Liquid food dispensing device. 3,200,999, 8-17-65, Cl. 222-185.
- Price, George S.: See—
Tally, Sidney K., Price, and Gordon. 3,177,103.
- Price, H. C., Co.: See—
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- Price, Herbert P., and D. F. McWhorter, to Devco & Reynolds Co., Inc. Continuous process for the preparation of glycidyl polyethers. 3,221,032, 11-30-65, Cl. 260-348.6.
- Price, Hollas K. Safety automobile door locking device. 3,166,144, 1-19-65, Cl. 180-82.
- Price, Hollas K. Combined rattle and whistle. 3,177,614, 4-13-65, Cl. 46-177.
- Price, Hollas K. Rocket-propelled vehicle with ground anchoring means. 3,186,302, 6-1-65, Cl. 89-1.7.
- Price, Hollas K. Electrical illuminating and sounding toy. 3,214,862, 11-2-65, Cl. 46-227.
- Price, Hollas K. Space craft propulsion means. 3,215,372, 11-2-65, Cl. 244-74.
- Price, Hollas K. Rocket propulsion means for space craft. 3,215,373, 11-2-65, Cl. 244-74.
- Price, Howard E., to The Coe Mfg. Co. Apparatus for handling logs. 3,195,593, 7-20-65, Cl. 144-209.
- Price, James C. Storage reel. 3,208,121, 9-28-65, Cl. 124-71.2.
- Price, Jerry L.: See—
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- Price, John A., to Avisun Corp. Propylene polymerization in the presence of an aluminum alkyl dihalide, titanium trichloride and an alkyl phosphonate. 3,216,987, 11-9-65, Cl. 260-93.7.
- Price, John E.: See—
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- Price, John E., to Fairchild Camera and Instrument Corp. Programmable circuit. 3,191,151, 6-22-65, Cl. 340-166.
- Price, Lewis C., Jr., to Control Print Machinery Manufacturers Corp. Printing apparatus. 3,220,341, 11-30-65, Cl. 101-35.
- Price, Lowell T.: See—
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Opratto, Val, and Price. 3,174,821.
- Price, Michael S. T., to United Kingdom Atomic Energy Authority. Process of forming a carbon article from furfural alcohol and carbon particles. 3,201,330, 8-17-65, Cl. 202-26.
- Price, Nathan C. Turbo-jet powerplant. 3,203,180, 8-31-65, Cl. 60-39.29.
- Price, Nathaniel W. Flush tank attachment for lever operation of atomizer deodorant cans. 3,182,337, 5-11-65, Cl. 4-222.
- Price, Norman W., to United Kingdom Atomic Energy Authority. Cable strapping tools. 3,179,128, 4-20-65, Cl. 140-93.2.
- Price, Paul S., and F. C. Greene, to Shepherd Casters, Inc. Tilted axle caster. 3,177,516, 4-13-65, Cl. 16-18.
- Price-Pfister Brass Mfg. Co.: See—
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Hinderer, Gottlob, and Thorp. 3,166,097.
- Price, Ralph E.: See—
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- Price, Ralph E., to Landis Tool Co. Traverse control valve for machine tools. 3,207,045, 9-21-65, Cl. 91-448.
- Price, Ralph E., and C. E. Tolbert, to Landis Tool Co. Precision feed for machine tools. 3,183,631, 6-18-65, Cl. 51-165.
- Price, Raymond: See—
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- Price, Robert S. Tracing converter. 3,182,399, 5-11-65, Cl. 33-23.
- Price, Ronald C.: See—
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- Price, Russell W. Reinforced conductive yarn. 3,206,923, 9-21-65, Cl. 57-140.
- Price, Staten B.: See—
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- Price-Stephens, Douglas, and H. E. Jackson, said Price-Stephens assor. to Ford Motor Co. and said Jackson assor. to Imperial-Eastman Corp. Connecting means. 3,224,801, 12-21-65, Cl. 287-90.
- Price, Thomas C.: See—
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- Price, Thomas J., to United States of America, Army. Digital servo and incremental positioner. 3,219,895, 11-23-65, Cl. 318-28.
- Price, Vernon L. Vibrationless air hammer assembly. 3,223,181, 12-14-65, Cl. 173-18.
- Price, Warren H., and J. S. Hayek, to Jacobsen Mfg. Co. Mounting for a rotatable chute. 3,214,223, 10-26-65, Cl. 302-61.
- Price, William: See—
Zwiebel, Norman, Newman, and Price. 3,220,615.
- Price, William B. Surface treating apparatus. 3,172,138, 3-9-65, Cl. 15-98.
- Price, William B. Method of and apparatus for pumping. 3,182,602, 5-11-65, Cl. 103-152.
- Price, William G., to ACF Industries, Inc. Railroad draft gear. 3,164,265, 1-5-65, Cl. 213-64.
- Price, William G., and H. J. May, to ACF Industries, Inc. Long stroke draft gear with full draft hydraulic action. 3,164,262, 1-5-65, Cl. 213-8.
- Price, William G., and H. J. May, to ACF Industries, Inc. Car construction. 3,164,264, 1-5-65, Cl. 213-43.
- Price, William G., and G. E. Frederick, Jr., to ACF Industries, Inc. Hydraulic draft gear. 3,175,699, 3-30-65, Cl. 213-43.
- Price, William R.: See—
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- Price, William R. Wick-type heater device. 3,185,144, 5-25-65, Cl. 126-350.
- Price, William R., to Ford Motor Co. Hydraulic unloading valves. 3,194,260, 7-13-65, Cl. 137-469.
- Price, William R., and W. J. Foxwell, to Ford Motor Co. Tractor hydraulic systems. 3,168,146, 2-2-65, Cl. 172-7.
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- Price, Wilson T., and S. Aisawa, to United States of America, Navy. Stowage adapter. 3,166,978, 1-26-65, Cl. 89-1.7.
- Price, Wilson T., and C. R. Brown, to United States of America, Navy. Vibration and noise control in liquid springs. 3,182,987, 5-11-65, Cl. 267-64.
- Price, Wilson T., and C. R. Brown, to United States of America, Navy. Liquid spring mounting means for a launching tube. 3,221,602, 12-7-65, Cl. 89-1.7.
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- Priceman, Seymour, and L. Sama, to United States of America, Atomic Energy Commission. Protective coatings for columbium and its alloys. 3,219,474, 11-23-65, Cl. 117-71.
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- Pricer, Wilbur D., to International Business Machine Corp. Negative resistance memory circuit. 3,189,878, 6-15-65, Cl. 340-173.
- Pricer, Wilbur D., and H. P. Wolff, to International Business Machines Corp. Transformer-coupled bistable semiconductor device memory. 3,189,876, 6-15-65, Cl. 340-173.
- Pricer, Wilbur D., and H. P. Wolff, to International Business Machines Corp. Electronic memory without compensated read signal. 3,189,877, 6-15-65, Cl. 340-173.
- Prichard, Arthur C.: See—
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- Prichard, Evan S.: See—
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- Prichard, Evan S., to Challenge-Cook Bros., Inc. Retractable axle for vehicle load distribution. 3,191,963, 6-29-65, Cl. 280-81.

- Prichard, John H.: See—
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Prichard, John H., to Celanese Corp. of America. Stabilization of oxymethylene copolymers by 2-hydroxy benzophenones. 3,219,621, 11-23-65, Cl. 260-45.95.
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- Quick, Stanley L., to Fairchild Hiller Corp. Tethered helicopter. 3,223,358, 12-14-65, Cl. 244-17.17.
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- Quick, William H.: See—
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- Quigg, Paul S., and N. Nilsson, to United States Gypsum Co. Structural member with multi-layered gypsum board fire protection. 3,217,456, 11-16-65, Cl. 52-423.
- Quiggle, Stanley L., and F. W. Osborn, to The Coleman Co., Inc. Compressor anti-slugging device. 3,180,567, 4-27-65, Cl. 230-206.
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- Dreyling, Lewis J., and A. P. 3,213,166.

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- Rahm, Howard E., to Midland-Ross Corp. Forming a gelatinous solution into ribbon-like bodies. 3,187,379, 6-8-65, Cl. 18-1.
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- Rahmes, Donald W., to International Latex Corp. Backed pile fabric and method of producing the same. 3,166,465, 1-19-65, Cl. 161-66.
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- Rainer, Norman, to Hampshire Chemical Corp. Tris (amidoxime methyl) amine. 3,210,421, 10-5-65, Cl. 260-564.
- Rainer, Norman B., to Coastal Interchemical Co. Process for the preparation of N-methylol amide derivatives. 3,189,646, 6-15-65, Cl. 260-561.
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- Rainer, Rudolf, to North American Phillips Co., Inc. Multiple function circuit. 3,210,566, 10-5-65, Cl. 307-8.5.
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- Rainer, William C., J. G. Germak, J. P. Hamilton, A. W. Sloan, W. D. Stewart, and K. A. Schellenberg, to Crown Cork & Seal Co., Inc. Plastic liners. 3,202,307, 8-24-65, Cl. 215-39.
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- Randall, Jack S.: See—
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- Randall, Kenneth W., to Insley Mfg. Corp. Brake assemblies for heavy traveling machines. 3,189,130, 6-15-65, Cl. 188-77.
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- Randall, Ralph R., to Duolac Engineering Co. Differential mechanism. 3,216,282, 11-9-65, Cl. 74-711.
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- Randall, Robert J.: See—
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- Randless, Arthur E., Jr. Egg carton setup machine. 3,190,193, 6-22-65, Cl. 93-37.
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- Redhead, Paul A., to National Research Council. Ion pump. 3,176,906, 4-6-65, Cl. 230-69.
- Redhead, Paul A., to National Research Council. Ion pump. 3,176,907, 4-6-65, Cl. 230-69.
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- Reding, Frederick P., to Union Carbide Corp. Blends of low molecular weight, highly branched polyethylenes with high molecular weight, sparsely branched polyethylenes. 3,183,283, 5-11-65, Cl. 260-897.
- Reding, Frederick P., and E. W. Wise, to Union Carbide Corp. Copolymerization process using a free-radical catalyst. 3,197,449, 7-27-65, Cl. 260-88.2.
- Reding, Marcel, and W. Bossard, to J. R. Gelgy, A-G. Reactive disazo dyestuffs. 3,196,145, 7-20-65, Cl. 260-153.
- Redington Counters, Inc.: See—
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- Redington, Rowland W., and P. J. van Heerden, to General Electric Co. Electron optics for infrared camera tubes. 3,185,891, 5-25-65, Cl. 313-65.
- Rediske, John H., and W. H. Lawrence. Method for protecting growing plants against animal damage. 3,226,291, 12-28-65, Cl. 167-46.
- Red Jacket Mfg. Co.: See—
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Brown, Marvin A., and Deters. 3,175,125.
Brown, Marvin A., Deters, and Youch. 3,172,572.
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Deters, Elmer M. 3,183,723.
Deters, Elmer M., and Youch. 3,172,567.
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- Redlich, Earl J. Anchor. 3,173,524, 3-16-65, Cl. 189-92.
- Redlich, Horst, to Teldec Telefunken-Decca Schallplatten G.m.b.H. Stereophonic transducer with adjustable feedback coils. 3,194,896, 7-13-65, Cl. 179-100.41.
- Redlich, Horst, and H. J. Klemp, to Teldec Telefunken-Decca Schallplatten G.m.b.H. Controller. 3,169,773, 2-16-65, Cl. 274-4.
- Redman, Frank B., to Hamilton Watch Co. Coil winding apparatus. 3,164,336, 1-5-65, Cl. 242-158.
- Redman, George F., to Revere Electric Mfg. Co. Pole setting jack. 3,210,048, 10-5-65, Cl. 254-101.
- Redman Industries, Inc.: See—
Hammar, Herbert G. 3,188,694.
- Redmayne, Leonard, to Girling Ltd. Shoe drum brakes. 3,191,722, 6-29-65, Cl. 188-78.
- Redmer, Wilbert W., to Abbott Laboratories. Flow regulating device. 3,167,085, 1-26-65, Cl. 137-315.
- Redmond, Elbert O., to Sebring Container, Inc. Angular shaped container. 3,176,901, 4-6-65, Cl. 229-39.
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- Redmond, John A.: See—
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- Redner, Salomon, to The Budd Co. Load cell independent of non-axial loading effects. 3,164,014, 1-5-65, Cl. 73-141.
- Redner, Salomon, to Photolastic, Inc. Polariscope having simultaneously rotatable waveplates. 3,177,761, 4-13-65, Cl. 88-14.
- Redner, Salomon, to The Budd Co. Direct reading uniaxial photoelastic transducer. 3,198,063, 8-3-65, Cl. 88-14.
- Red Owl Stores, Inc.: See—
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- Redstone, Reuben, and M. C. Rowland, to United States of America, Atomic Energy Commission. Target for a neutron generator consisting of a coating of one of the lanthanum elements on a base metal. 3,167,855, 1-26-65, Cl. 250-84.5.
- Redtenbacher, Kurt. Pre-fabricated dental frame model with a seal facilitating groove. 3,224,050, 12-21-65, Cl. 22-158.
- Redwood, Richard C., Jr., to Honeywell Inc. Transistor amplifier including gain control and temperature sensitive means. 3,204,191, 8-31-65, Cl. 330-17.
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- Reeber, Rudolf, to G. M. Pfaff, A.G. Drive mechanism for feed dogs of sewing machines. 3,195,487, 7-20-65, Cl. 112-215.
- Reeber, Rudolf, to G. M. Pfaff, A.G. Stitch control mechanism for sewing machines with combined lower and upper feed. 3,198,154, 8-3-65, Cl. 112-210.
- Reeber, Rudolf, to G. M. Pfaff, A.G. Automatic sewing and the like apparatus. 3,208,415, 9-28-65, Cl. 112-2.
- Reeber, Rudolf, H. Adam, and H. Orth, to G. M. Pfaff, A.G. Program-controlled automatic sewing apparatus. 3,208,414, 9-28-65, Cl. 112-2.
- Reed, Buckley R.: See—
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- Reed, Charles B.: See—
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- Reed, Charles B., and C. G. Sutter, to Sperry Rand Corp. Self checking gyroscopic apparatus. 3,186,211, 6-1-65, Cl. 73-1.
- Reed, Charles F. Jet suspension. 3,188,875, 2-9-65, Cl. 104-134.
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- Reed, Charles H.: See—
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- Reed, Christian H. Line truck lift for elevating linemen to overhead power lines. 3,166,153, 1-19-65, Cl. 182-2.
- Reed, Clair S., to Van Dresser Specialty Corp. Pad-type cushion structure for a seat. 3,174,164, 3-23-65, Cl. 5-354.
- Reed, David A., Jr., to North American Aviation, Inc. Rotary wing aircraft. 3,175,619, 3-30-65, Cl. 170-160.13.
- Reed, David D.: See—
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- Reed, David D., to Texaco Inc. Method of producing a mono-ester of a hydrocarbyl thiophosphonic acid and a polyalkylene glycol. 3,201,438, 8-17-65, Cl. 260-461.
- Reed, David D., J. M. Petersen, and H. D. Kluge, deceased (by H. E. Kluge, administratrix), to Texaco Inc. Dihydroxyalkoxyhydrocarbyl hydrocarbothiophosphonates. 3,164,624, 1-5-65, Cl. 260-461.
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- Reed, Edwin G., Jr. Air-delivered anti-personnel mine. 3,175,489, 3-30-65, Cl. 102-8.
- Reed, Edwin G., Jr. Bomb suspension cable. 3,195,459, 7-20-65, Cl. 102-7.2.
- Reed, Edwin G., Jr. Destructible magnetic switch. 3,205,322, 9-7-65, Cl. 200-61.08.
- Reed Electromech Corp.: See—
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- Reed, Frederick P., to United States of America, Army. Multimagazine, two-stage feeding device for firearms. 3,190,023, 6-22-65, Cl. 42-18.
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- Reed, George A., to The Oxford Corp. Viewing device having optical arrangement producing virtual image at infinity. 3,190,171, 6-22-65, Cl. 88-1.
- Reed, George R., to Dana Corp. Transmission testing machine. 3,195,350, 7-20-65, Cl. 73-162.
- Reed, Hugh W. B., to Imperial Chemical Industries Ltd. Polyvinyl chloride compositions stabilized with a tris hydroxy phenyl-propane. 3,205,189, 9-7-65, Cl. 260-31.8.
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- Reed, Robert D., to John Zink Co. Apparatus for supplying air to fuel burner. 3,180,393, 4-27-65, Cl. 158-1.5.
- Reed, Robert D., to John Zink Co. Liquid and gaseous fuel burner assembly producing a fan-shaped flame. 3,180,395, 4-27-65, Cl. 158-11.
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- Reed, Robert D., to John Zink Co. Burner head for gaseous fuel. 3,204,684, 9-7-65, Cl. 158-116.
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- Reed, Selmar A. Garbage receptacle rack. 3,167,185, 1-26-65, Cl. 211-84.
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- Reed, Stanley F., and G. W. Cook, to Pitney-Bowes, Inc. Apparatus for separating and feeding sheet-like articles. 3,182,796, 5-11-65, Cl. 209-73.
- Reed, Theodore M., to Pacific Outdoor Advertising Co. Rotatable indicia-bearing vanes for signboards. 3,199,289, 8-10-65, Cl. 40-76.
- Reed, Theron J., to American Planter Co. Flow diverting mechanism for vertically disposed conveyor tubes. 3,184,036, 5-18-65, Cl. 198-68.
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- Reeder, Earl, and L. H. Sternbach, to Hoffmann-La Roche Inc. Process for preparing benzodiazepine compounds. 3,222,359, 12-7-65, Cl. 260-239.
- Reeds, John W., Jr., to Beckman Instruments, Inc. Hygrometer. 3,223,609, 12-14-65, Cl. 204-195.
- Reef, Jan. Gear teeth checking gage. 3,167,867, 2-2-65, Cl. 33-179.5.
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- Reek, Robert J., to Teletype Corp. Transistorized distributor or counter having particular impedance connections between collectors and bases. 3,210,569, 10-5-65, Cl. 307-88.5.
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- Reerink, Engbert H., P. Westerhof, and H. F. L. Schöler, to North American Phillips Co., Inc. 10a methyl, 9b hormonal steroids. 3,198,792, 8-3-65, Cl. 260-239.55.
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- Rees, Frank X., deceased, by E. G. Rees, executrix, to General Signal Corp. Electrical surge bypass unit. 3,204,322, 9-7-65, Cl. 29-25.11.
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- Rees, Vernon C., to Owens-Corning Fiberglas Corp. Constant tensioning packaging system. 3,202,377, 8-24-65, Cl. 242-75.5.
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- Reese, Terrell J. Load transfer hitch for vehicles. 3,185,499, 5-25-65, Cl. 280-406.
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- Reffell, Brian R. A. to The Walter Kidde Co., Ltd. Inflatable dinghy systems. 3,212,112, 10-19-65, Cl. 9-11.
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- Catlin, Robert T., and Swain. 3,199,612.
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- Remington, Elliott L., to Draper Corp. Bobbin holder for loom filling battery. 3,183,943, 5-18-65, Cl. 139-249.
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- Remington, William F., and R. R. Jackson. Child's convertible car and table seat. 3,222,104, 12-7-65, Cl. 297-134.
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Reutschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera having automatic exposure setting mechanism. 3,196,768, 7-27-65, Cl. 95-11.

Reutschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera having automatic exposure setting means. 3,221,623, 12-7-65, Cl. 95-10.

Reutschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Intra-lens shutter. 3,221,629, 12-7-65, Cl. 95-63.

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Reutschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera with built-in or attachable delayed-action device. 3,223,013, 12-14-65, Cl. 95-53.3.

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- Rey-Bellet, Gerald, and H. Spiegelberg, to Hoffmann-La Roche Inc. 6H-6-trichloromethylmercaptodibenzof[1,2]thiazine 5,6-dioxide compounds. 3,177,220, 4-6-65, Cl. 260-243.
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- Rich, Howard B., and A. T. Green, to Howard B. Rich, Inc. Machine for forming ladders. 3,209,799, 10-5-65, Cl. 144-2.
- Rich, Samuel M. Safety means in air brake equipment. 3,194,608, 7-13-65, Cl. 303-84.
- Rich, Stanley R.: See—
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- Rich, Stanley R., to Alfred H. Rosen. Low frequency loud-speaker system. 3,164,221, 1-5-65, Cl. 181-31.
- Rich, Stanley R., to Northern Industries, Inc. Elastic wave generator. 3,169,507, 2-16-65, Cl. 118-137.
- Rich, Stanley R., to Northern Industries, Inc. Elastic wave generator. 3,169,508, 2-16-65, Cl. 118-137.
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- Rich, Stanley R., to A. H. Rosen. High fidelity sound reproducer. 3,198,890, 8-3-65, Cl. 179-115.5.
- Rich, Stanley R., to Northern Industries, Inc. Liquid treatment. 3,213,592, 10-26-65, Cl. 55-15.
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- Rich, Theodore A., to General Electric Co. Process and apparatus for detecting gas. 3,198,721, 8-3-65, Cl. 204-157.
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- Richard, Andre M. E., and A. P. and H. Jendou, to Societe d'Electronique et d'Automatisme. Magnetic core information handling systems. 3,206,731, 9-14-65, Cl. 340-174.
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- Richard, Joseph D. Ultrasonic viscosimeter. 3,194,057, 7-18-65, Cl. 73-55.
- Richard, Joseph D. Particle size analyzer. 3,208,286, 9-28-65, Cl. 73-432.
- Richard, Joseph D. Aeolian fish lure. 3,225,484, 12-28-65, Cl. 43-17.1.
- Richard, Joseph D. Time recording lock system. 3,225,576, 12-28-65, Cl. 70-434.
- Richard, Joseph D. Wave measuring apparatus. 3,225,593, 12-28-65, Cl. 73-170.
- Richard, Joseph D. Apparatus for determining characteristics of the ocean bottom. 3,226,670, 12-28-65, Cl. 340-2.
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- Richard, Kurt G. Diedrich, and E. Gaube, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of thermoplastic films. 3,178,495, 4-13-65, Cl. 264-95.
- Richard, Paul P. Control mechanism. 3,181,389, 5-4-65, Cl. 74-480.
- Richard, William R., Jr., J. D. Calfee, and L. E. Erbaugh, to Monsanto Co. Low temperature copolymerization. 3,200,101, 8-10-65, Cl. 260-88.2.
- Richards, Bert L., Jr., to E. I. du Pont de Nemours and Co. Bis(dilsopropylthiocarbamyl)sulfide as a fungicide. 3,224,932, 12-21-65, Cl. 167-22.
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- Richards, George B., and P. J. Contoyanis, to Liquid Controls Corp. Liquid flow control device. 3,204,659, 9-7-65, Cl. 137-504.
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- Richards, Keith C., to Owens-Illinois Glass Co. Control of plasma. 3,222,568, 12-7-65, Cl. 313-111.
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- Richter, John F., to Eitel-McCullough, Inc. Electron tube having close spaced electrodes and a bimetallic cathode. 3,211,939, 10-12-65, Cl. 313-151.
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- Richter, Sidney B., to Velsicol Chemical Corp. Method of destroying growing weeds. 3,189,432, 6-15-65, Cl. 71-2.6.
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- Richter, Sven U. K. A., and H. S. Schnitzer, to DeBell & Richardson, Inc. Flame resistant, self extinguishing dielectric lens material comprising a halogenated epoxy resin composition. 3,198,758, 8-3-65, Cl. 260-2.5.
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- Rickard, Clyde E., to McDowell Mfg. Co. Torque joint. 3,188,733, 6-15-65, Cl. 29-523.
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- Rickards, Michael A., to Weber Aircraft Corp. Dynamic test facility. 3,200,634, 8-17-65, Cl. 73-12.
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- Rickborn, Harold C. Sport bridge self-conformable to cambered cabin top. 3,174,452, 3-23-65, Cl. 114-71.
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- Ricker, Clifford A., to Telsta Corp. Conductor grip. 3,204,309, 9-7-65, Cl. 24-31.
- Ricker, Conrad J., and D. C. Reilly, to Goodman Mfg. Co. Troughing roller assembly. 3,221,868, 12-7-65, Cl. 198-192.
- Rickert, Ronald H. Jack head assembly. 3,168,286, 2-2-65, Cl. 254-134.
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- Rickling, Alfred H., to Radio Corp. of America. Vertical deflection circuit with height control feedback. 3,165,666, 1-12-65, Cl. 315-27.
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- Rico, Ignacio O. Flat iron stand. 3,215,379, 11-2-65, Cl. 248-117.2.
- Rico Ltd.: See—
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- Yue, Kwong T. 3,169,897.
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- Martin, Joseph L. 3,168,114.
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- Ridgeway, Harry, to Joseph Rhodes & Sons Ltd. Shearing machine with a pivotal blade having eccentric means to adjust blade along axis of the pivot. 3,170,357, 2-23-65, Cl. 53-608.
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- Ridgway, Stuart L. Charcoal starting arrangement for a home-style barbecue grill. 3,192,918, 7-6-65, Cl. 126-25.
- Ridgway, Stuart L., to TRW Inc. Exhaust control apparatus. 3,211,534, 10-12-65, Cl. 23-277.
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- Riebmman, Leon, to American Electronic Laboratories, Inc. Means for converting signals. 3,202,920, 8-24-65, Cl. 329-161.
- Riebs, Richard E., to McGraw-Edison Co. Electronic time delay devices. 3,167,686, 1-26-65, Cl. 317-22.
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- Rieck, Albert W., to Owens-Illinois Glass Co. Glassware cooling and transfer apparatus. 3,186,822, 6-1-65, Cl. 65-348.
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- Riedel, Kurt A., and C. M. Karcher, to Kearney & Trecker Corp. Machine tool drive mechanism. 3,192,787, 7-6-65, Cl. 74-365.
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- Riemenschneider, Wilhelm, U. Pintschovius, and O. Probst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of aliphatic, olefinically unsaturated dicarboxylic acids. 3,221,049, 11-30-65, Cl. 260-533.
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- Riesebeck, Curt. Tracing stencil. 3,197,878, 8-3-65, Cl. 33-174.
- Rieser, John D. Variable speed transmission. 3,214,997, 11-2-65, Cl. 74-640.
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- Riester, William C., to Trico Products Corp. Resilient material check valve. 3,194,263, 7-13-65, Cl. 137-508.
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- Rife, Marjorie M.: See—
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- Rigant, Jean. Apparatus for continuously forming thermo-plastic flexible tubing. 3,173,822, 3-16-65, Cl. 156-429.
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- Rigby, Francis L., and W. E. Parker, to Canadian Breweries Ltd. Continuous preparation of brewers' mash. 3,216,345, 11-9-65, Cl. 99-276.
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- Riley, Jesse L., J. G. Santangelo, and G. M. Moelter, to Celanese Corp. of America. Apparatus for producing multi-component filaments and yarns. 3,209,402, 10-5-65, Cl. 18-8.
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- Ritzerfeld, Wilhelm, and G. Stripper arrangement for a printing machine. 3,181,459, 5-4-65, Cl. 101-132.5.
- Ritzerfeld, Wilhelm, and G. Electro-photographic apparatus. 3,183,805, 5-18-65, Cl. 95-1.7.
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- Ritzheimer, Earl: See—
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- Riull, Arduino, and G. I. Schrank, to Specialties Development Corp. Horn and hose assembly for carbon dioxide fire extinguishing apparatus. 3,172,607, 3-9-65, Cl. 239-288.
- Riva, William. Three-dimensional game board with apertures for advancing or regressing the progress of a game piece. 3,184,237, 5-18-65, Cl. 273-134.
- Riva, William. Pull toy. 3,213,844, 10-26-65, Cl. 124-29.
- Riva, William. Pull toy. 3,221,445, 12-7-65, Cl. 46-204.
- Rival Mfg. Co.: See—
- McClellan, Robert E. 3,165,830.
- Rivard, Alfred L. Jointer-knife setting tool. 3,200,507, 8-17-65, Cl. 33-185.
- Rivark Research and Development Corp.: See—
- Rivoche, Eugene J. 3,215,531.
- Rivas, Trino J. Protecting rubber ring for phonograph records. 3,169,023, 2-9-65, Cl. 274-42.
- Rively, Clair M.: See—
- Kimball, Henry B., Hasell, and Rively. 3,194,098.
- Rively, Clair M., and W. A. Brenneck, to Westinghouse Electric Corp. Method of manufacture for synchronizing movement between plural worklines. 3,172,455, 3-9-65, Cl. 153-10.
- Rively, Clair M., and J. F. Michael, to Westinghouse Electric Corp. Module assembly for projection lamps. 3,183,395, 5-11-65, Cl. 313-271.
- River Brand Rice Mills, Inc.: See—
- Autrey, Harry S., and Lynn. 3,189,462.

- Rivera, Aureo. Automatic measuring and dispensing device. 3,224,635, 12-21-65, Cl. 222-36.
- Rivero, Benito M. Gas manometer. 3,208,284, 9-28-65, Cl. 73-366.
- Rivero, Olmedo J. M. Meter boxes and meter mountings. 3,212,339, 10-19-65, Cl. 73-431.
- Rivers, Russell C., to Riley Stoker Corp. Traveling grate incinerator. 3,169,498, 2-16-65, Cl. 110-15.
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- Rivers, William F.: 1/4 to L. A. Mattare, 1/4 to J. W. Dent, 1/4 to D. J. Rich, and 1/4 to J. F. Smith. Dry material transfer apparatus. 3,208,799, 9-28-65, Cl. 302-17.
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- Riviera Appliance Corp.: See—
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- Riviere, Charles, to Le Progress Scientifique. Compositions having high diuretic action and a high ratio of elimination of sodium with respect to potassium. 3,203,861, 8-31-65, Cl. 167-65.
- Riviere, Michel, to Institut de Recherches de la Siderurgie Francaise. Method and device for the protection of refractory walls. 3,165,301, 1-12-65, Cl. 263-15.
- Rivoche, Eugene J., to Rivark Research and Development Corp. Method for preparation of starch-containing food products. 3,215,531, 11-2-65, Cl. 99-1.
- Rix, Earl H., and D. R. Houston, to United States of America, Navy. Search-while-track radar system. 3,197,770, 7-27-65, Cl. 343-7.
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- Rix, Theodor R.: See—
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- Rizzo, Olympio C. Long nose pliers with cutting attachment. 3,172,133, 3-9-65, Cl. 7-5.4.
- Rizzo, Pedro, to Wylerson S/A Industria e Comercio. Retainer for crankshafts and vehicle axles in general. 3,179,427, 4-20-65, Cl. 277-199.
- Rizzo, Salvatore R. Means for retrieving flexible bottle stoppers from below the bottle necks. 3,216,290, 11-9-65, Cl. 81-3.41.
- Rizzuto, Anthony. Wheeled shopping cart or basket. 3,191,950, 6-29-65, Cl. 280-36.
- Rizzuto, Joseph and M. J. Hydraulic brake auxiliary reservoir and signal device. 3,179,919, 4-20-65, Cl. 340-59.
- Rizzuto, Michael J.: See—
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- Ro, Roland S., to E. I. du Pont de Nemours and Co. Catalyst system. 3,166,517, 1-19-65, Cl. 252-429.
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- Roach, Charles D., and L. M. Hewin, to United States of America, Army. Push-pull remote control device. 3,211,019, 10-12-65, Cl. 74-501.
- Roach, Donald B., D. A. Roberts, and A. M. Hall, to United States of America, Atomic Energy Commission. Iron alloy. 3,170,824, 2-23-65, Cl. 148-31.
- Roach, Erskine E.: See—
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- Roark, James T., to Otis Engineering Corp. Well tools. 3,208,788, 9-28-65, Cl. 294-86.15.
- Roark, James T., to Otis Engineering Corp. Plug for well conductors. 3,216,504, 11-9-65, Cl. 166-181.
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- Robb, George D. Die assembly. 3,213,657, 10-26-65, Cl. 72-24.
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- Robbers, James A., to California Research Corp. Hydrocarbon conversion process. 3,172,836, 3-9-65, Cl. 208-59.
- Robbins, Alex, to Standard Systems Corp. Push-button selector switch with latch plate means. 3,207,862, 9-21-65, Cl. 200-16.
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- Robbins, Daniel H., M. H. Craft, E. J. Pierce, and J. R. Kane, to Itek Corp. Photographic tank filling apparatus. 3,173,577, 3-16-65, Cl. 222-64.
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Bennett, Foster C., Robbins, and Warnock. 3,184,812.
- Robbins, Frank E., to The Dow Chemical Co. Aluminum aux. 3,186,881, 6-1-65, Cl. 148-26.
- Robbins, Frank E., to The Dow Chemical Co. Aluminum aux. 3,189,491, 8-15-65, Cl. 148-26.
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- Robbins, James D., and R. A. Curtis, to Borg-Warner Corp. Dry cleaning system. 3,225,572, 12-28-65, Cl. 68-27.
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- Robbins, Ralph C. Clevis with spring-operated pin. 3,190,677, 6-22-65, Cl. 280-515.
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- Robbins, Richard J., and D. F. Winberg, to James S. Robbins & Associates, Inc. Cutting wheel for rock drilling machine. 3,191,699, 6-29-65, Cl. 175-374.
- Robbins, Richard J., D. F. Winberg, and J. Galgoczy, to James S. Robbins & Associates, Inc. Rock drilling machine. 3,203,737, 8-31-65, Cl. 299-31.
- Robbins, Richard J., and D. F. Winberg, to James S. Robbins & Associates, Inc. Cutter assemblies for rock drilling. 3,216,513, 11-9-65, Cl. 175-227.
- Robbins, Robert C., to Stanford Research Institute. Method of encapsulation of aerosols by in situ polymerization. 3,219,476, 11-23-65, Cl. 117-100.
- Robbins, Roscoe S., W. T. Palmer, and J. F. Newell, Jr., to Crown Machine & Tool Co. Apparatus for molding foamable thermoplastic particulate material. 3,224,037, 12-21-65, Cl. 18-5.
- Robbins, Roy F., to Louis G. Ernster, d.b.a. Erusco Enterprises. Weigh scale for fish landing nets. 3,223,189, 12-14-65, Cl. 177-149.
- Robbins, Samuel B., to General Motors Corp. Transistor ignition system. 3,200,803, 8-17-65, Cl. 123-148.
- Robbins, Samuel B., to General Motors Corp. Memory system for powered seat. 3,223,377, 12-14-65, Cl. 248-419.
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- Robbins, Thomas R., to United States of America, Atomic Energy Commission. Nuclear reactor control means. 3,219,535, 11-23-65, Cl. 176-17.
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- Roberge, Francis D. Ordnance aerial transfer system. 3,167,278, 1-26-65, Cl. 244-137.
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- Robert, Andre C., to Sud-Aviation Societe Nationale de Constructions Aeronautiques. System for the self-guidance of a missile to a moving target. 3,189,300, 6-15-65, Cl. 244-14.
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- Robert, Roger A., and P. P. Matge, deceased, by L. R. P. H. S. M. and J. P. L. Matge, to L. R. P. Jacquot, heir of said P. P. Matge, deceased. Closing devices for rocket bomb nozzle. 3,194,119, 7-13-65, Cl. 89-1.7.
- Roberts, Alan R. Auxiliary battery arrangement. 3,200,014, 8-10-65, Cl. 136-181.
- Roberts, Alan P., to Esso Production Research Co. Bit weight applicator. 3,225,844, 12-28-65, Cl. 175-230.
- Roberts, Albert O. Passenger vehicle having pneumatic body and frame. 3,215,113, 11-2-65, Cl. 115-1.
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- Roberts, Berlon A. Modules for making generally two-dimensional patterns. 3,214,874, 11-2-65, Cl. 52-311.
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- Roberts, Carleton W., and M. B. Chenoweth, to The Dow Chemical Co. Dodecabromopentacyclodecane as an X-ray opaque agent. 3,212,973, 10-19-65, Cl. 167-95.
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- Roberts, Charles C., and F. R. Moran. Electromagnetically actuated cam-operated rotary multi-switch relay. 3,168,629, 2-2-65, Cl. 200-104.
- Roberts, Charles H.: See—
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- Roberts, Charles L., and P. W. Stoneburner, to Reynolds Metals Co. Soft systems. 3,170,266, 2-23-65, Cl. 50-86.
- Roberts, Charles P., H. A. Sommers, and N. J. Brunsveld, to Intermountain Research & Development Corp. Method of controlling sulfide concentration to prevent iron contamination in the process of trena. 3,211,519, 10-12-65, Cl. 23-63.
- Roberts, Charles W., to Ormond Inc. Angular position indicating device. 3,188,860, 6-15-65, Cl. 73-88.5.
- Roberts Consolidated Industries, Inc.: See—
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- Roberts, Dale N. Article handling device. 3,169,643, 2-16-65, Cl. 214-1.
- Roberts, Derl G., and H. R. Junken. Tree felling control device. 3,219,075, 11-23-65, Cl. 144-34.
- Roberts, Dimon A.: See—
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- Roberts, Donald L., to R. J. Reynolds Tobacco Co. Tobacco. 3,217,717, 11-16-65, Cl. 131-17.
- Roberts, Donald L., to R. J. Reynolds Tobacco Co. Tobacco. 3,217,718, 11-16-65, Cl. 131-17.
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- Roberts, Edward S., and L. J. Christmann, to Carbogen Corp. Method of making HCNO. 3,166,390, 1-19-65, Cl. 23-151.
- Roberts, Edward S., M. J. Kalous, and M. L. Feuer, executor of the estate of said M. J. Kalous, deceased, to Pullman Inc. Catalyst holder. 3,195,988, 7-20-65, Cl. 23-288.
- Roberts, Emory D. Expandable saw blade. 3,198,227, 8-3-65, Cl. 144-239.
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- Roberts, Franklin B., to Package Machinery Co. Underlap forming means for wrapping machines. 3,220,160, 11-30-65, Cl. 53-233.
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- Roberts, Fred T., and R. E., to Fred T. Roberts & Co. Apparatus for making molded flexible hose. 3,222,728, 12-14-65, Cl. 18-35.
- Roberts, Fred T., and R. E., to Fred T. Roberts & Co. Method of making hose. 3,223,760, 12-14-65, Cl. 264-94.
- Roberts, Frederick W., D. E. Taylor, and J. A. Rescanski, to Dictaphone Corp. Remote dictation apparatus. 3,168,621, 2-2-65, Cl. 179-6.
- Roberts, George G.: See—
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- Roberts, George I. Method for severing a coil form winding element. 3,168,847, 2-9-65, Cl. 83-13.
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- Roberts, Herbert B., to Mansfield Sanitary, Inc. Hopper for mechanical seal toilets. 3,214,772, 11-2-65, Cl. 4-79.
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- Roberts, Howard C., to Koehring Co. Position indicating system. 3,203,494, 8-31-65, Cl. 177-1.
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- Roberts, Irving. Magnetic tape recording and playback systems. 3,166,328, 1-19-65, Cl. 274-4.
- Roberts, J. S. Monorail conveyor systems. 3,209,896, 10-5-65, Cl. 198-177.
- Roberts, James A., and H. R. Fischer, to Chicago Pneumatic Tool Co. Maximum fluid pressure control device. 3,175,061, 3-23-65, Cl. 200-82.
- Roberts, James J., and L. J. Costanza. Collapsible cover for trucks. 3,168,345, 2-2-65, Cl. 296-100.
- Roberts, James B., and V. F. Valerio, to United States Gypsum Co. Prefabricated panel. 3,216,167, 11-9-65, Cl. 52-612.
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- Roberts, James S., to Milwaukee Chaplet & Mfg. Co., Inc. Drive mechanism for a stepping switch. 3,198,965, 8-3-65, Cl. 307-141.
- Roberts, James S., to Milwaukee Chaplet & Mfg. Co., Inc. Stepping switch system for spacing the steps by non-discrete time intervals. 3,198,966, 8-3-65, Cl. 307-141.
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- Robinson, Mendell. Stapedial prosthesis. 3,196,462, 7-27-65, Cl. 3-1.
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- Robinson, Myron L., and D. C. Hill. Plastic pipe to metal pipe coupling. 3,222,094, 12-7-65, Cl. 285-256.
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- Robinson, Norman M., to Certain-Teed Products Corp. Equipment for arranging packages. 3,195,710, 7-20-65, Cl. 198-33.
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- Robinson, Ralph M., to Abbott Laboratories. Preparation of cyclohexylamine by hydrogenation of aniline using a rhodium catalyst. 3,196,179, 7-20-65, Cl. 260-563.
- Robinson, Ralph M., and R. G. Sundberg, to Abbott Laboratories. Catalytic hydrogenation of nitro-aromatic compounds to aromatic amines. 3,194,839, 7-18-65, Cl. 260-575.
- Robinson, Raymond G. R., to Pye Ltd. Scanning coil assemblies. 3,191,105, 6-22-65, Cl. 317-200.
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- Robinson, Robert A., to Beckman Instruments, Inc. Pipette apparatus. 3,203,251, 8-31-65, Cl. 73-425.6.
- Robinson, Robert C. Oil temperature regulators for internal combustion engines. 3,213,930, 10-26-65, Cl. 165-38.
- Robinson, Robert E., to National Distillers and Chemical Corp. Process for preparing esters. 3,190,912, 6-22-65, Cl. 260-497.
- Robinson, Robert J., to Cummins-Chicago Corp. Photocell for detecting limited moving shadow areas. 3,202,827, 8-24-65, Cl. 250-219.
- Robinson, Robert R., to The National Cash Register Co. Inking trays. 3,215,073, 11-2-65, Cl. 101-333.
- Robinson, Roland N. One-piece mud guard. 3,195,921, 7-20-65, Cl. 280-154.5.
- Robinson, Russell I., to The Louis Allis Co. Electric motor with improved cooling means. 3,188,833, 6-15-65, Cl. 62-505.
- Robinson, Russell I., B. T. Hein, and J. W. Purman, to The Louis Allis Co. Electric motor with improved cooling means. 3,207,934, 9-21-65, Cl. 310-57.
- Robinson, Russell S., to Pneumo Dynamics Corp. Embedment anchor. Re. 25,764, 4-13-65, Cl. 114-206.
- Robinson, Russell S. Multi-barreled projector and block ammunition. 3,208,350, 9-28-65, Cl. 89-34.
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- Robinson Technical Products, Inc.: See—
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- Robinson, Wealey A., to Thompson Ramo Wooldridge Inc. Infrared detector using a Raman scattering medium. 3,204,105, 8-31-65, Cl. 250-211.
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- Robinson, William W., Jr., and D. C. Camp, to Cumberland Case Co. Chain construction. 3,189,164, 6-15-65, Cl. 198-168.
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- Robison, Paul C., deceased, by E. C. Robison, administratrix, to FMA, Inc. Backlit projection screen. 3,183,775, 5-18-65, Cl. 88-28.93.
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- Robson, Frederick W., and W. A. Wahl, to Toledo Scale Corp. Dishwashing machines. 3,221,754, 12-7-65, Cl. 134-68.
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- Robson, William W., Jr. Automatic furnace. 3,225,722, 12-28-65, Cl. 110-38.
- Robuck, Edmund R., to Hoffman Electronics Corp. Wave frequency converter using beat operation and harmonic circuits. 3,181,070, 4-27-65, Cl. 328-25.
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- Roccati, Alberto. Drafting desk. 3,180,028, 4-27-65, Cl. 33-79.
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- Rocha, John G., to United States of America, Army. Motor driven automatic gun. 3,181,423, 5-4-65, Cl. 89-161.
- Rocha, John G., to United States of America, Army. Feed mechanism for externally powered automatic gun. 3,182,555, 5-11-65, Cl. 89-33.
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- Rochester, Stanley H., and S. E. Jack, to Aluminium Laboratories Ltd. Coated belt and method of making same for continuous metal casting process. 3,163,896, 1-5-65, Cl. 22-57.4.
- Rochette, James P., and R. A. R. Caudron, to La Telemecanique Electrique. Normally closed auxiliary contact device including a slide member provided with fast acting contact means. 3,167,626, 1-26-65, Cl. 200-104.
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- Rodrigues, Anthony F., to Filper Corp. Fruit orientor and method. 3,179,232, 4-20-65, Cl. 193-3.
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- Roebuck, David S. P., to Monsanto Chemicals Ltd. Trans-esterification reaction of orthosilicates with polyhydric phenols. 3,192,241, 6-29-65, Cl. 260-448.8.
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- Roedel, Donald G. Artificial fishing lures. 3,193,963, 7-13-65, Cl. 43-42.39.
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- Roes, John B., W. J. Gauld, and E. S. Pedersen, to United States of America, Navy. Flexible cold side for thermoelectric module. 3,221,508, 12-7-65, Cl. 62-3.
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- Roeschen, William R., to Rex Chainbelt, Inc. Self-propelled percussion tool assembly. 3,225,842, 12-28-65, Cl. 173-24.
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- Rogers, Donald G., and D. J. Zepfieri, to Sprague Electric Co. Electric capacitor with porous electrode and method for making same. 3,196,323, 7-20-65, Cl. 317-230.
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- Rogerson, John, and H. C. Wilding, to Carmmell Laird and Co. (Shipbuilders & Engineers) Ltd. Machine bearings. 3,199,933, 8-10-65, Cl. 308-121.
- Rogerson, John R. Lobster trap davit. 3,181,263, 5-4-65, Cl. 43-8.
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- Rogus, Joseph A., to Mid-West Metallic Products, Inc. Shift type nesting and stacking receptacle. 3,202,294, 8-24-65, Cl. 211-126.
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- Rohacs, Etienne, to Societe anonyme dite: Societe d'Applications des Machines Motrices. Improved handle for pilot's lever. 3,198,922, 8-2-65, Cl. 200-157.
- Rohan, John W. Portable dictionary on film reading device. 3,174,241, 3-23-65, Cl. 40-95.
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- Rohe, Frederick W., and C. S. Phelan; said Phelan assor. to said Rohe. Method of installing sandwich panel spacer with torque-resistant mechanical anchorage. 3,197,854, 8-3-65, Cl. 29-455.
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Vunderink, Ate. 3,190,728.
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- Rose, Werner, and H. Kolenda, to GEA-Luftkuehler-Gesellschaft m.b.H. Distilling arrangement. 3,165,455, 1-12-65, Cl. 202-189.
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- Roseman, Leo. Hook and eye. 3,176,366, 4-6-65, Cl. 24-228.
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- Rosen, Harold A., to United States of America, Navy. Precision target using single sideband modulator. 3,167,768, 1-26-65, Cl. 343-17.7.
- Rosen, Inge H. R., and S. H. A. Weieritz, to Volvo, Aktiebolaget. Arrangement in vehicle axles associated with a planetary type bevel gearing. 3,199,375, 8-10-65, Cl. 74-113.
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- Rosen, Irving, to Diamond Alkali Co. Aromatic diol chain-extended polyester urethanes. 3,196,132, 7-20-65, Cl. 260-75.
- Rosen, Leo. High speed perforator. 3,181,783, 5-4-65, Cl. 234-119.
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- Rosen, Leonard B. Razor blade package. 3,219,180, 11-23-65, Cl. 206-16.
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- Rosenbaum, Saul, to Leviton Mfg. Co., Inc. Control circuit for incandescent lamp or the like. 3,218,511, 11-16-65, Cl. 315-207.
- Rosenberg, Allan E., to Garde Mfg. Co. Printed circuit card rack. 3,184,069, 5-18-65, Cl. 211-41.
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- Rosenfeld, Morton M. Wall and block therefor. 3,196,582, 7-27-65, Cl. 50-144.
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- Rosenstein, Ludwig, and M. H. Gorin. Concentration by solid formation. 3,205,871, 9-14-65, Cl. 62-58.

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- Rosenstein, Nathan and A. J., to Spunize Co. of America, Inc. Apparatus and method for crimping of natural and synthetic textile material. 3,164,882, 1-12-65, Cl. 28-1.
- Rosenston, David, to Crane Co. Adapter for limit switch or the like. 3,180,949, 4-27-65, Cl. 200-47.
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- Rosenthal, Christian, to Chemische Werke Munchen Otto Barlocher G.m.b.H. Stabilizer-lubricant aggregate. 3,216,566, 11-9-65, Cl. 206-84.
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- Rubens, Harry E. Shoe heel with circular wear element. 3,208,163, 9-28-65, Cl. 36-39.
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- Rubenstein, David. Reinforced pipe and method of making. 3,177,902, 4-13-65, Cl. 138-176.
- Rubenstein, Irving. Apparatus for making and packaging ice cream sandwiches. 3,182,611, 5-11-65, Cl. 107-1.
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- Rubenstein, Julia. Shoulder strap and scarf clasp. 3,218,686, 11-23-65, Cl. 24-198.
- Rubenstein, Sherman D.: See—
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- Rubico, Jerome A., and C. F. Batchelder. Dies for cutting cross-linked rand insoles. 3,217,579, 11-16-65, Cl. 83-652.
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- Rubin, Benjamin A., to American Home Products Corp. Pronged vaccinating and testing needle. 3,194,237, 7-13-65, Cl. 128-253.
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- Fogel, Mortimer A., and Rubin. 3,178,559.
- Rubin, Irvin C. Word training aid. 3,199,228, 8-10-65, Cl. 35-35.
- Rubin, Isadore, to Industrial Process Engineers, Inc. Fluid mixing device. 3,207,484, 9-21-65, Cl. 259-4.
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- Rubin, Leonard R., to Engelhard Industries, Inc. Method for hydrogen diffusion. 3,208,198, 9-28-65, Cl. 55-16.
- Rubin, Myron S.: See—
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- Rubin, Robert M.: See—
- Ertsgaard, Byron L., and Rubin. 3,169,358.
- Rubin, Samuel. Massage and exercise device. 3,173,415, 3-18-65, Cl. 128-33.
- Rubino, Mark. Method of simultaneously embossing articles of different dimensions. 3,194,152, 7-13-65, Cl. 101-32.
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- Rubinstein, Helena, Inc.: See—
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- Rubinstein, Joseph, to General Slicing Machine Co., Inc. Cutting implements. 3,178,317, 4-20-65, Cl. 30-293.
- Rubinstein, Joseph, to General Slicing Machine Co., Inc. Cutting implements affording adjustment for thickness of slice. 3,191,301, 6-29-65, Cl. 30-293.
- Rubinstein, Matthew N. Shopping bag with attached coupon. 3,220,634, 11-30-65, Cl. 229-54.
- Rubinstein, William C., to Paramount Pictures Corp. Billing system for subscription television using central recording. 3,172,948, 3-9-65, Cl. 178-5.1.
- Rubinstein, William C., to Paramount Picture Corp. Subscription-television receiver having rate set by program selector. 3,182,121, 5-4-65, Cl. 178-5.1.
- Rubinstein, William C., and G. Brownstein, to Paramount Pictures Corp. Pay-television receiver having program, 3,192,313, selection according to amount of prepayment. 3,192,313, 6-29-65, Cl. 178-5.1.
- Rubio, Alfred M., to Beltone Electronics Corp. Ear impression apparatus. 3,208,102, 9-28-65, Cl. 18-5.1.
- Rubio, Alfred M., and W. G. Horler, to Beltone Electronics Corp. Microminiature multipole, multiposition, electrical switch construction. 3,171,905, 3-2-65, Cl. 200-11.
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- Ruch, James P., to Anaconda Wire and Cable Co. Combined duct and electric cable. 3,202,754, 8-24-65, Cl. 174-68.
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- Ruchardt, Hugo, H. Hargasser, W. Meer, and H. Heising, to Siemens & Halske Aktiengesellschaft. Diffused-base transistors, preferably for high-frequency operation. 3,220,894, 11-30-65, Cl. 148-33.
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- Rucker, Howard L., to Johns-Manville Corp. Process for producing a molded-gasket from polytetrafluoroethylene and a butadiene-acrylonitrile elastomer. 3,223,676, 12-14-65, Cl. 260-41.5.
- Rucker, J. W., and P. Thomas. Plastic bag sealer and trimmer. 3,214,317, 10-26-65, Cl. 156-515.
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- Ruckstuhl, Niles L. Hinge. 3,201,821, 8-24-65, Cl. 16-163.
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- Ruhlman, Jon R., and H. L. Williams, to Preformed Line Products Co. Indicating device for cables. 3,183,883, 5-18-65, Cl. 116-114.
- Ruhman, Emil: See—
- Ruck, Robert M., Fuller, McAfee, and Ruhman. 3,182,304.
- Ruhnke, Richard R., to Gary Corp. Support clip. 3,199,822, 8-10-65, Cl. 248-243.
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- Roelen, Otto, and Rottig. 3,219,685.
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- Ruiz, Alexander A., and S. C. 3,180,219.
- Ruiz, William B. Stay mechanism for self-closing door hinge. 3,212,126, 10-19-65, Cl. 16-189.
- Rulzoo, Constantino. Roulette game spinner. 3,222,069, 12-7-65, Cl. 273-142.
- Rukavina, Frank, to Illinois Tool Works Inc. Automatic rim rolling apparatus. 3,192,565, 7-6-65, Cl. 18-19.
- Ruland, Fred F. Permeability tuning. 3,214,716, 10-26-65, Cl. 336-131.
- Rule, Edwin L., to Hexcel Products Inc. Apparatus for manufacturing honeycomb. 3,184,365, 5-18-65, Cl. 156-648.
- Rule, Eric: See—
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- Rulf, Elmer G., to Eldon Mfg. Co., Inc. Method for the production of bangle and mounting strip assemblies. 3,172,198, 3-9-65, Cl. 29-416.
- Rulf, Elmer G., to Eldon Mfg. Co., Inc. Display rack. 3,172,539, 3-9-65, Cl. 211-59.
- Rumbaugh, William A., to National Broach & Machine Co. Gear honing tool. 3,206,893, 9-21-65, Cl. 51-206.
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- Feldmann, Klaus, Rumberg, Klee, Floor, and Schummer. 3,201,052.
- Rumberg, Alfred, W. Krauss, G. Rittershausen, W. Damgen, and R. Fruhling, to Knapsack Aktiengesellschaft. Cover with removable parts for electric furnaces. 3,222,445, 12-7-65, Cl. 13-9.
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- Carlstrom, Borge I., and Rumberg. 3,220,970.
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- Rumberger, George G., to KVP Sutherland Paper Co. Sealable overlap carton. 3,194,473, 7-13-65, Cl. 229-37.
- Rumberger, George G., to KVP Sutherland Paper Co. Heat-sealing cartons. 3,194,474, 7-13-65, Cl. 229-37.
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- Rumble, Dale H., to International Business Machines Corp. Noise analyzer. 3,176,070, 3-30-65, Cl. 178-69.
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- Rumble, Richard K. Seat belt assembly. 3,164,409, 1-5-65, Cl. 297-388.
- Rumble, Richard K. Retracting seat belt assembly. 3,184,267, 5-18-65, Cl. 297-388.
- Rumble, Robert C.: See—
- Britton, Donald H., Hoyer, and Rumble. 3,192,725.
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- Rumble, Robert C., and W. A. Hoyer, to Jersey Production Research Co. Cooling radiation detectors in well logging apparatus. 3,167,653, 1-26-65, Cl. 250-715.
- Rumble, William G., to Radio Corp. of America. Monostable circuit for generating pulses of short duration. 3,209,173, 9-28-65, Cl. 307-88.5.
- Rumble, William G., and W. V. Dix, to Radio Corp. of America. Magnetic plate memory system. 3,171,103, 2-28-65, Cl. 340-174.
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- Rumer, David O., Jr., and R. A. Patterson, to Reed Electromech Corp. Coin devices. 3,204,648, 9-7-65, Cl. 133-2.
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- Rumley, Elmore C., and L. H. Williams, deceased (G. M. Williams, administratrix). Joint sealing device for building wall panels. 3,205,629, 9-14-65, Cl. 52-396.
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- Rummel, Roman. Process and device for producing building material. 3,193,264, 7-6-65, Cl. 263-11.
- Rummel, Theodor, to Siemens & Halske Aktiengesellschaft. Method and means for floating-zone melting of rod-shaped bodies of crystallizable semiconducting or conducting material. 3,179,502, 4-20-65, Cl. 23-301.
- Rummel, Theodor, to Siemens & Halske Aktiengesellschaft. Apparatus for preparing semiconductor rods. 3,226,203, 12-28-65, Cl. 23-273.
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- Rumsey, Rollin D., to Houdaille Industries, Inc. Valve construction. 3,190,313, 6-22-65, Cl. 137-625.22.
- Rumsey, Rollin D., to Houdaille Industries, Inc. Rotary actuator structure. 3,207,048, 9-21-65, Cl. 92-125.
- Rumsey, Rollin D., to Houdaille Industries, Inc. Snubbing means for rotary hydraulic actuators. 3,225,664, 12-28-65, Cl. 91-408.
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- Rumsey, Rollin D., and A. L. Zanow, to Houdaille Industries, Inc., and National Castings Co. Hydraulic buffer. 3,190,630, 6-22-65, Cl. 267-1.
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- Runco, Joseph C.: See—
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- Runco, Joseph C., and H. W. Hoehn, to Anchor Hocking Glass Corp. Mechanism for feeding closures. 3,185,285, 5-25-65, Cl. 198-52.
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- Runkle, Dean E., to The Bendix Corp. Hydraulic centering device. 3,195,570, 7-20-65, Cl. 137-596.
- Runkle, Dean E., to The Bendix Corp. Universal joint. 3,217,516, 11-18-65, Cl. 64-17.
- Runnels, George W., G. F. Emig, and W. J. Reuter, to Talon, Inc. Machine for cutting slide fastener chain. 3,190,161, 6-22-65, Cl. 83-256.
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- Runyan, Wesley G., to General Motors Corp. Static inverter. 3,178,635, 4-13-65, Cl. 323-89.
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- Runyan, Wesley G., to Collins Radio Co. Square wave phase shifter. 3,210,651, 10-5-65, Cl. 323-108.

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- Ruoff, Carl E., to International Business Machines Corp. Transistor switch with noise rejection provided by variable capacitance feedback diode. 3,218,472, 11-16-65, Cl. 307-88.5.
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- Ruoff, Karl, and W. Eberle, to Dr. Ing. h.c.F. Porsche, KG. Firma. Double clutch construction. 3,212,611, 10-19-65, Cl. 192-48.
- Ruosa, Leo, E. Wetzels, F. Marx, and H. Luescher, to Ciba Ltd. Container for medicaments. 3,199,489, 8-10-65, Cl. 116-121.
- Rupe, Chauncey O., to Miles Laboratories, Inc. Process for preparing galactose oxidase by fermentation. 3,186,919, 6-1-65, Cl. 195-66.
- Rupe, Chauncey O., to Miles Laboratories, Inc. Process for preparing galactose oxidase by fermentation. 3,186,921, 6-1-65, Cl. 195-66.
- Rupert, Paul S., to Empresa Nacional de Inversiones, S.A. Vending machine apparatus. 3,172,713, 3-9-65, Cl. 312-235.
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- Schilder, Hans, Rupp, and Nickel. 3,160,582.
- Rupp, Karl, and L. Jäger, to North American Philips Co., Inc. Counter for magnetic tape recording and/or reproducing apparatus. 3,207,432, 9-21-65, Cl. 235-128.
- Rupp, Otto. Inhaling device. 3,189,030, 6-15-65, Cl. 128-186.
- Rupp, Richard B.: See—
- Shub, Lionel, and Rupp. 3,168,731.
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- Rupp, Warren E., to The Gorman-Rupp Co. High efficiency low specific speed centrifugal pump. 3,205,828, 9-14-65, Cl. 103-103.
- Rupp, William C., to The Chandler & Price Co. Knife bar stop. 3,173,327, 3-16-65, Cl. 83-588.
- Rupp, William L., to Hoover Ball and Bearing Co. Blend-ing apparatus. 3,182,969, 5-11-65, Cl. 259-25.
- Ruppe, Peter P. Method of surface finishing articles. 3,187,473, 6-8-65, Cl. 51-313.
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- Ruppersberg, Hans K., and W. Schallehn, to Telefunken Aktiengesellschaft. Indicating device. 3,181,150, 4-27-65, Cl. 343-8.
- Ruppert, Heinrich, and H. Schnell, to Farbenfabriken Bayer Aktiengesellschaft. a,a-Di-(substituted and unsubstituted amino phenyl) a,a-tetra alkyl-p-xylylene. 3,200,152, 8-10-65, Cl. 260-570.
- Ruppert, Max K., to Poor & Co. Continuous stop rail anchor. 3,168,245, 2-2-65, Cl. 238-327.
- Rupprecht, Joachim, to Siemens-Schuckertwerke Aktiengesellschaft. Mixed-crystal thermoelectric composition. 3,211,656, 10-12-65, Cl. 252-62.3.
- Rupright, Bert A., deceased (H. Rupright, widow), 50% to L. Wendrow. Awning assembly. 3,221,756, 12-7-65, Cl. 135-5.
- Rupright, Helen: See—
- Rupright, Bert A. 3,221,756.
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- Rusch, Adolphe, to United States of America, Army. Magnetic tape with reinforced backing. 3,179,533, 4-20-65, Cl. 117-76.
- Rusch, Michael R.: See—
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- Rusche, Fredric. Pile driving mandrel assembly. 3,190,078, 6-22-65, Cl. 61-53.72.
- Ruschig, Heinrich, K. Schmitt, G. Driesen, L. Ther, and W. Pfaff, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Triazolidines. 3,184,470, 5-18-65, Cl. 260-308.
- Ruschig, Heinrich, K. Schmitt, L. Ther, and W. Melxner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3-O-tolyl-4-(3H)-pyrimidones. 3,185,689, 6-25-65, Cl. 260-251.
- Ruschig, Heinrich, W. Aumüller, G. Korger, H. Wagner, J. Scholz, and A. Bander, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Method of reducing blood sugar and compositions therefor. 3,198,706, 8-3-65, Cl. 167-65.
- Ruschig, Heinrich, K. Schmitt, L. Ther, and G. Vogel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 1-phenyl-2-loweralkyl and phenyl-loweralkyl-4-tertiary amino-3,5-dioxo-1,2,4-triazolidines. 3,201,404, 8-17-65, Cl. 260-294.
- Ruschman, Frederick J., Jr. Curtain guide device for curtain rods. 3,167,225, 1-26-65, Cl. 223-105.
- Ruschmann, Henry F. Operating upon sheets of foil. 3,166,966, 1-26-65, Cl. 83-262.
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- Ruscio, Donald A.: See—
- Koenig, Roy C., and Ruscio. 3,223,100.
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- Martin, William C., Jr., and Rush. 3,191,363.
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- Frank, Mervin E., and Rush. 3,219,802.
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- Rush, William F., to Borg-Warner Corp. Gas-liquid contact apparatus. 3,204,425, 9-7-65, Cl. 62-485.
- Rush, Wallace R.: See—
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- Rushing, Frank C., to United States of America, Atomic Energy Commission. Thrust bearings. 3,202,465, 8-24-65, Cl. 308-160.
- Rushmer, John R.: See—
- Blix, Weltzin B., and Rushmer. 3,165,073.
- Rushton, Frederick N., to Washington Aluminum Co., Inc. Panel structure. 3,196,763, 7-27-65, Cl. 94-11.
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- Ruskin, Simon L. 3,197,402.
- Ruskin, Henry, and S. I. Koben, to Swingline Inc. Pencil sharpening device. 3,224,418, 12-21-65, Cl. 120-96.
- Ruskin, Simon L., deceased (D. Ruskin, M. Reder, and C. Farbi, executors). Methods for the rapid recovery of heavy water and other products. 3,197,402, 7-27-65, Cl. 210-42.
- Rusnak, George A.: See—
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- Russ, Paul E., W. Stavast, and W. M. Haines, to The Gates Rubber Co. Method of casting articles from liquid elastomers. 3,200,180, 8-10-65, Cl. 264-102.
- Russac, Andrew and L. S. Hand tool for separating plank boards. 3,168,285, 2-2-65, Cl. 254-131.
- Russac, Louis S.: See—
- Russac, Andrew and L. S. 3,168,285.
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- Russell, Charles E.: See—
- Schaefer, Wilbur C., and Russell. 3,193,409.
- Russell, Clifford M. Coupling nut. 3,181,896, 5-4-65, Cl. 285-15.
- Russell Construction Ltd.: See—
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- Russell, Edward L., and K. A. Hanover, to Chemtron Corp. Resolution of DL-menthyl hydrogen phthalate with 1-(α-naphthyl)-ethylamine. 3,201,455, 8-17-65, Cl. 260-475.
- Russell, Edward W. C. Means and method for preparing record bearing media. 3,189,732, 6-15-65, Cl. 235-61.12.
- Russell, Frank D., Sr., to Frost-Whited Co., Inc. Press feeder. 3,213,782, 10-26-65, Cl. 100-43.
- Russell, Fred J. Low friction latch bolt and hinge guide. 3,172,691, 3-9-65, Cl. 292-163.
- Russell, Fred J. Sliding door latch hub. 3,174,783, 3-23-65, Cl. 292-103.
- Russell, Fred J. Cylinder lock assembly. 3,175,378, 3-30-65, Cl. 70-582.
- Russell, Fred J. Knob outer end stabilizer. 3,190,684, 6-22-65, Cl. 292-347.
- Russell, Fred J. Combination key-operated mechanism and hand-hold face support. 3,196,645, 7-27-65, Cl. 70-224.
- Russell, Fred J. Low friction latch bolt guide. 3,197,247, 7-27-65, Cl. 292-163.
- Russell, Fred J. Method of anchoring latch bolt casings. 3,212,180, 10-19-65, Cl. 29-453.

- Russell, Fred J., J. D. Witt, and R. J. Nolin; said Witt and said Nolin assors. to said Russell. Hand hold face opening and spindle device for insertion or removal of key operated mechanism. 3,175,377, 3-30-65, Cl. 70-224.
- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Construction master key system. 3,175,379, 3-30-65, Cl. 70-383.
- Russell, Fred J., and J. D. Witt; said Witt assor. to said Russell. Flange trimming method and apparatus therefor. 3,175,439, 3-30-65, Cl. 83-52.
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- Russell, Fred J., J. D. Witt, and R. J. Nolin; said Witt and said Nolin assors. to said Russell. Spindle device for releasably retaining a locking mechanism assembly. 3,196,644, 7-27-65, Cl. 70-224.
- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Sliding door latch spacer. 3,197,246, 7-27-65, Cl. 292-101.
- Russell, Fred J., and P. Cirocco; said Cirocco assor. to said Russell. Hand-held assembly. 3,212,305, 10-19-65, Cl. 70-224.
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- Russell, Fred J., and P. Cirocco. Multiple location boring jig. 3,212,306, 10-19-65, Cl. 77-62.
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- Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Return spring mechanism for a lock. 3,212,806, 10-19-65, Cl. 292-336.3.
- Russell, Frederick J.; See—
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Kennard, Kenneth C., and Russell. 3,212,899.
- Russell, George F.; See—
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- Russell, Gordon C., to Lockheed Aircraft Corp. Connecting structure. 3,191,725, 6-29-65, Cl. 189-34.
- Russell, Gordon C., to Lockheed Aircraft Corp. Door and jamb construction. 3,218,678, 11-23-65, Cl. 20-16.
- Russell, Gordon D., and I. Bering, to Johnson & Johnson. Nonwoven fabrics and methods of making the same. 3,214,323, 10-26-65, Cl. 161-148.
- Russell, Grover M., to Penn Controls, Inc. Precipitation detector. 3,193,637, 7-6-65, Cl. 200-61.04.
- Russell, Harold J., to Roth Russell Corp. Plumbing core. 3,174,158, 3-23-65, Cl. 4-1.
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Bonnet, Georges, and Salvi. 3,166,707.
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Sampson, Merritt B., to The S-P Mfg. Corp. Adjustable universal chuck. 3,178,192, 4-13-65, Cl. 279-6.

Sampson, Ralph L., H. Rutenberg, and L. Miller, to Water Gard Corp. Domestic water filter. 3,184,064, 5-18-65, Cl. 210-136.

Sampson, Sidney F., to Bell Telephone Laboratories, Inc. Monostable multivibrator utilizing common-base transistor to provide isolation between timing network and switching transistor. 3,191,069, 6-22-65, Cl. 307-88.5.

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Samuels, Gerard, to Radio Corp. of America. Frame grid and method of fabrication. 3,189,779, 6-15-65, Cl. 313-350.

Samuelsen, Eirik, to Chematur, Aktiebolaget, and Norsk Sprangstoffindustri A/S. Manufacture of nitrotoluenes. 3,204,000, 8-31-65, Cl. 260-645.

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Sanchez, Louie G., and P. A. Plouffe. Phillips screwdriver sharpener. 3,164,931, 1-12-65, Cl. 51-98.

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Sand, William C., to Bell Telephone Laboratories, Inc. Line concentrator system. 3,190,967, 6-22-65, Cl. 179-18.

Sandberg, Carl L., P. I. Roth, and J. A. M. Mullins, to Minnesota Mining and Mfg. Co. Copolymer compositions and lubricating compositions therefrom. 3,214,406, 10-26-65, Cl. 260-47.

Sandberg, Carl R., to Socony Mobil Oil Co., Inc. Method for recovery of hydrocarbons by in situ heating of oil shale. 3,205,942, 9-14-65, Cl. 168-4.

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Sanders, Norman T., to Needle Industries Ltd. Cutter members for dry shavers. 3,197,864, 8-3-65, Cl. 30-43.6.

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Sanders, Ralph M. Power driven fishing reel. 3,215,359, 11-2-65, Cl. 242-84.1.

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Sanderson, William T.: See—

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Sargrove, John A., to The Sheffield Twist Drill & Steel Co. Ltd. Taper gauging and sorting apparatus. 3,197,027, 7-27-65, Cl. 209-88.
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Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Co. Substituted 4-thiazolidinones and process therefor. 3,187,002, 6-1-65, Cl. 260-306.7.
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Saunders, Kenneth W., W. H. Montgomery, and J. C. French, to American Cyanamid Co. Process for the preparation of methylene glycinonitrile. 3,167,581, 1-26-65, Cl. 260-465.5.

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Sawa, Yoshiro, S. Maeda, and N. Tsuzi, to Shionogi & Co., Ltd. 6-alkylmorphinan derivatives. 3,166,560, 1-19-65, Cl. 260-285.

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- Schaeffer, William D., to Union Oil Co. of California. Clathration process. 3,197,525, 7-27-65, Cl. 260-674.
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- Schaftelowitz, Henry, to Telefonaktiebolaget L M Ericsson. Distortion compensation at wide-band transmission over a number of equal narrow-band channels. 3,226,485, 12-28-65, Cl. 179-15.
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- Schmittner, Walter P., deceased (by A. L. Schmittner, and R. V. Abendroth, co-executors), to The Falk Corp. Coupling. 3,196,635, 7-27-65, Cl. 64-15.
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Schofield, John J., and F. P. Schlierberl, to Chandler Evans Inc. Wash flow bearing system. 3,221,663, 12-7-65, Cl. 103-126.

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Scholl, Herbert, to Buhler Nachfolger G.m.b.H., Gebr. Centrifugal switch for motor speed control system. 3,221,236, 11-30-65, Cl. 318-325.

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Scholl, Josef, and E. Sarson, to Maschinenfabrik Carl Zange Aktiengesellschaft. Method of tensioning yard goods to be embroidered. 3,168,882, 2-9-65, Cl. 112-266.

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Scholl, William M. Method of making a foot cushioning insole. 3,170,178, 2-23-65, Cl. 12-146.

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Scholl, William M. Adhesive tape perforating machine. 3,170,354, 2-23-65, Cl. 83-347.

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Scholz, Heinrich, and P. Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 1,3-propylene diamine. 3,223,735, 12-14-65, Cl. 260-583.

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Schon, Werner C.: See—
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Schonberger, Jay F., and T. Stern, to Foster Wheeler Corp. Reheating for steam generators. 3,209,731, 10-5-65, Cl. 122-459.

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Schonenberger, Kurt B., to Furnier- und Sperrholzwerk J. F. Werz, Jr., K. G. Werzalit-Pressholzwerk, Oberstenfeld. Apparatus for producing boxlike containers. 3,166,789, 1-26-65, Cl. 18-16.

Schoner, Stefan, to FUU, Aktiengesellschaft. Feed additive containing rennet and calcium chloride. 3,222,179, 12-7-65, Cl. 99-2.

Schonfeld, Arnold, E. F. Keyser, and J. Federigo, to Sperry Rand Corp. Housing structure for electronic components. 3,192,443, 6-29-65, Cl. 317-100.

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Schonfeld, Paul, J. Acke, and H. H. Classen, to Rokal G.m.b.H. Insulated handle and knob assembly for fluid control valves. 3,179,973, 4-27-65, Cl. 16-116.

Schonfeldt, Nikolaus A., and K. H. Grunewald, to Berol Aktiebolag. Processes of treating textile fibres before forming the same into a yarn. 3,197,333, 7-27-65, Cl. 117-139.5.

Schönherr, Armin, to Licentia Patent-Verwaltungs-G.m.b.H. Switching device for firing automatic firearms. 3,187,231, 6-1-65, Cl. 317-139.

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Schonstedt, Erick O. Magnetic flux directing cylindrical core having a plurality of serially arranged interruptions. 3,168,696, 2-2-65, Cl. 324-43.

Schönung, Arnold, and K. Stahl, to Brown, Boveri & Cie, Aktiengesellschaft. Vibration damping arrangement for rotary field system of excitation regulation synchronous machines. 3,167,702, 1-26-65, Cl. 322-17.

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Schoofs, Richard J., to Shell Oil Co. Process for the recovery of active catalytic material from an aluminum halide-hydrocarbon sludge. 3,173,881, 3-16-65, Cl. 252-411.

Schooler, Jerome P. Concealed gravity hinge and concealed companion hinge assemblies. 3,210,799, 10-12-65, Cl. 16-164.

Schooley, Robert W., Jr. Fluid dielectric constant comparing device using plural fluid dielectric capacitors alternately connected to a single oscillator. 3,215,931, 11-2-65, Cl. 324-61.

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Schomp, Robert E., A. S. Chou, and C. E. Spurrer, to International Business Machines Corp. Card positioning and guiding mechanism. 3,168,309, 2-2-65, Cl. 271-58.

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Schott, Arthur K., to Houdaille Industries, Inc. Structure for punching machine. 3,190,165, 6-22-65, Cl. 83-467.

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Schott, Charles M., Jr., to The First National Bank of Boston. Winder. 3,170,653, 2-23-65, Cl. 242-64.

Schott, Charles M., Jr., to Gloucester Engineering Co., Inc. Method and apparatus for extruding plastic. 3,193,547, 7-6-65, Cl. 264-209.

Schott, Charles M., Jr., 50% to Gloucester Engineering Co., Inc., and 50% to Milton Gelfand. Dispenser for plastic. 3,216,061, 11-9-65, Cl. 18-5.

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Schott, Walter L., and J. L. Harvey, Jr., to International Rectifier Corp. Push-pull electrical switch having reentrant shaped spring members. 3,217,117, 11-9-65, Cl. 200-51.09.

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Schottler, Henry. Pump. 3,194,172, 7-13-65, Cl. 103-162.

Schottz, Otto W. Portable lamp switch. 3,226,502, 12-28-65, Cl. 200-60.

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Koerber, Willem K., and Schouteden. 3,181,948.

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Schovee, John R.: See—
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Schrader, Charles L., to Ingersoll-Rand Co. Torque control device. 3,199,314, 8-10-65, Cl. 64-26.

Schrader, Clarence O., to Technicolor Corp. of America. Cartridge for motion picture projector. 3,206,757, 9-14-65, Cl. 352-78.

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Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. O-cyanophenyl esters of alkylphosphonic alkylthiophosphonic, dialkylphosphonic, and dialkylthiophosphonic acids. 3,164,623, 1-5-65, Cl. 260-461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Alkenyl thiophosphonic acid fluoramides. 3,184,465, 5-18-65, Cl. 260-293.4.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphonic acid esters or ester amides and processes for the production thereof. 3,185,721, 6-25-65, Cl. 260-461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic and phosphinic acids and their thio analogues containing a dichloro-benzylthio-ether group. 3,185,722, 5-25-65, Cl. 260-461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. O-chloroalkyl O-alkylmercapto-alkyl and O-chloroalkyl S-alkylmercaptoalkyl esters of alkyl phosphonic acids. 3,187,035, 6-1-65, Cl. 260-461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. O-alkyl-O-cycloalkyl thiophosphoric acid S-phenyl-esters. 3,201,444, 8-17-65, Cl. 260-461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphonic acid esters containing at least one S-alkyl group. 3,209,020, 9-28-65, Cl. 260-461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and process for the production thereof. 3,213,122, 10-19-65, Cl. 260-461.

Schrader, Gerhard. Thiophosphoric acid ester and a process for the production thereof. 3,217,025, 11-9-65, Cl. 260-461.

Schrader, Gerhard, W. Lorenz, and H. Schlicke, to Farbenfabriken Bayer Aktiengesellschaft. 2,3-(alkyl mercapto)-propyl esters of phosphinothioic and phosphonothioic acids. 3,194,828, 7-13-65, Cl. 260-461.

Schrader, Gerhard, and R. Colln, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphonic acid esters and process for their production. 3,209,019, 9-28-65, Cl. 260-461.

Schrader, Gerhard, and W. Lorenz, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonyl-(thiono)phosphonic-(phosphonic) acid esters and process for the production thereof. 3,211,772, 10-12-65, Cl. 260-461.

Schrader, Preston H., to Rex Chainbelt Inc. Vibratory bin agitator. 3,166,222, 1-19-65, Cl. 222-195.

Schrader, Preston H., to Rex Chainbelt Inc. Clog free screening mechanism. 3,191,774, 6-29-65, Cl. 209-329.

Schrader, Roger F., to General Electric Co. Bushing fuse provided with a fuse body of strong insulating material having flattened ends. 3,187,146, 6-1-65, Cl. 200-113.

Schrader, Roger F., to General Electric Co. Cooling means for buried transformer. 3,212,563, 10-19-65, Cl. 165-45.

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Schram, Jan L., to Koninklijke Maatschappij tot het uitvoeren van openbare werken "Adriaan Volker" N.V. Suction dredge having rotatable digging tool. 3,171,220, 3-2-65, Cl. 37-66.

Schram, Richard R., 10% to M. Nagy, and 10% to S. P. Owens. Three-dimensional game apparatus. 3,224,778, 12-21-65, Cl. 273-130.

Schrameck, Jack E., and H. O. Dakin, Jr., to Westinghouse Electric Corp. Interrupting structures and control for compressed gas circuit interrupters. 3,214,540, 10-26-65, Cl. 200-145.

Schrameck, Jack E., and W. R. Segar, to Westinghouse Electric Corp. Gas-blast circuit interrupters with both stationary and movable pneumatically-operated contacts. 3,214,548, 10-26-65, Cl. 200-148.

Schramel, Franz J.: See—
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Schramel, Franz J., and A. W. van 't Slot, to North American Philips Co., Inc. Storing pulse generators and their control. 3,217,299, 11-9-65, Cl. 340-174.

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Schramm, Arthur G. Trenching and cable laying machine. 3,201,948, 8-24-65, Cl. 61-72.6.

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Schramm, Fred W., to Western Electric Co., Inc. System for calibrating oscillator scales. 3,212,025, 10-12-65, Cl. 331-44.

Schramm, Harry R.: See—
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Schraub, Willi, to Scharmann & Co. Method of making a guiding arrangement for carriages on machine tools and the like. 3,220,096, 11-30-65, Cl. 29-148.4.

Schray, Walter H., to United Steel & Wire Co. Dairy cases. 3,181,723, 5-4-65, Cl. 220-19.

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Rockerath, John L., and Schreck. 3,204,590.

Schrecongost, Ray B.: See—
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Schrecongost, Ray B., to Hammond Organ Co. Sine wave divider for electrical musical instruments. 3,179,812, 4-20-65, Cl. 307-88.5.

Schreffler, Robert Z., to Owens-Corning Fiberglass Corp. Flake glass breakout detector and method of controlling glass breakout. 3,222,151, 12-7-65, Cl. 65-29.

Schreiber, August. Apparatus for improving the combined mechanical and biological clarification of town sewage or the like. 3,172,849, 3-9-65, Cl. 216-151.

Schreiber, August. Device for the biological purification of sewage. 3,215,274, 11-2-65, Cl. 210-150.

Schreiber, Charles M.: See—
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Schreiber, Edward A., Jr. Manually maneuverable cattle feeding cart. 3,198,398, 8-3-65, Cl. 222-176.

Schreiber, Franz, to Siemens-Schuckertwerke Aktiengesellschaft. Electromagnetic apparatus for moving a rod structure within a tubular housing. 3,219,853, 11-23-65, Cl. 310-14.

Schreiber, Frederick W., to Lever Brothers Co. Space deodorant dispenser. 3,207,441, 9-21-65, Cl. 239-47.

Schreiber, Frederick W., and W. F. Boucher, to Lever Bros. Co. Carton. 3,180,553, 4-27-65, Cl. 229-17.

Schreiber, Friedrich, to Siemens & Halske Aktiengesellschaft. Integrating amplifier circuit using an aperture square loop magnetic core. 3,214,600, 10-26-65, Cl. 307-88.

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Schreiber, Jakob: See—
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Schreiner, Heinz R., to Union Carbide Corp. Size reduction of biological substances. 3,172,546, 3-9-65, Cl. 241-23.

Schreiner, Heinz R., to Union Carbide Corp. Process for controlling the growth rate of fungi. 3,183,171, 5-11-65, Cl. 195-81.

Schreiner, Horst: See—
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Schreiner, Horst, to Siemens-Schuckertwerke Aktiengesellschaft. Silicon rectifier. 3,175,892, 3-30-65, Cl. 29-195.

Schreiner, Horst, to Siemens-Schuckertwerke Aktiengesellschaft. Electrical contact device. 3,226,517, 12-28-65, Cl. 200-166.

Schreiner, Horst, and H. Schering, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor device. 3,204,158, 8-31-65, Cl. 317-234.

Schreiner, John R.: See—
Durham, Raymond F., and Schreiner. 3,199,846.

Schreiner, Kenneth E., to International Business Machines Corp. Non-linear resonant apparatus. 3,175,164, 3-23-65, Cl. 330-49.

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Schreiner, Siegfried: See—
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Schreitmüller, Rudolph F., to Sperry Rand Corp. Receiver noise compensation system. 3,170,157, 2-16-65, Cl. 343-17.1.

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- Schweighofer, Horst M., to Collins Radio Co. Flight director display. 3,176,265, 3-30-65, Cl. 340-27.
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- Schweitzer, Carl E.: See—
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- Hallauer, Walter. 3,225,502.
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- Schibli, Marcel. 3,225,869.
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- Schwender, Leonard D.: See—
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- Schwenk, William E., to International Paper Co. Method and apparatus for sealing milk containers and the like. 3,200,557, 8-17-65, Cl. 53-39.
- Schwenkler, Norbert H., to Patent License Corp. Lighting fixture. 3,210,875, 10-12-65, Cl. 40-129.
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- Schwent, Glennon V., and H. W. Wright, Jr., to The Garrett Corp. Fuel control mechanism for a gas turbine engine. 3,213,613, 10-26-65, Cl. 60-39.28.
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- Schwenzfeier, Carl W., and C. S. Pomelee, to The Brush Beryllium Co. Production of high-purity sinterable beryllium oxide. 3,172,728, 3-9-65, Cl. 23-183.
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- Sharko, Sam, to Intercontinental Dynamics Corp. Annular ring suction cup testing and holding means. 3,186,212, 6-1-65, Cl. 73-4.
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Sherk, Fred T., and J. E. Cottle, to Phillips Petroleum Co. Separation and recovery of tertiary amylenes. 3,185,742, 5-25-65, Cl. 260-677.

Sherk, Fred T., and R. E. Dixon, to Phillips Petroleum Co. Process and apparatus for non-catalytic reaction. 3,201,488, 8-17-65, Cl. 260-672.

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- Kodama, Shinjiro, Fukui, Yuasa, Shimizu, Kagiya, Machi, Hirata, and Yagi. 3,170,900.
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- Shipek, Carl J. Sea floor sediment sampler. 3,165,931, 1-19-65, Cl. 73-425.2.
- Shiplet, Levi F., to Texaco Inc. Spiral drill collar and method of manufacture thereof. 3,205,733, 9-14-65, Cl. 76-108.
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- Shipley, Eugene E., to General Electric Co. Torque meter. 3,224,262, 12-21-65, Cl. 73-138.

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- Shiraishi, Makoto, 1/2 to Kurashiki Rayon Co., Ltd., and 1/2 to Air Reduction Co., Inc. Treatment of water-resistant acetalized with polyvinyl alcohol fibers. 3,198,851, 8-3-65, Cl. 117-47.
- Shirakura, Shiro, H. Shimano, and M. Ueno, to Yehan Numata. Electric-controlled micrometer. 3,166,851, 1-26-65, Cl. 33-166.
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- Shiren, Norman S., and T. G. Kazyaka, to International Business Machines Corp. Acoustical traveling wave parametric amplifier and generator using paramagnetic ions to enhance acoustic dispersion. 3,215,943, 11-2-65, Cl. 330-4.6.
- Shirey, Frank W., to Westinghouse Air Brake Co. Hydraulic draft gear for railway cars. 3,175,700, 3-30-65, Cl. 213-43.
- Shirey, Frank W., to Westinghouse Air Brake Co. Lubricating oil pressure control apparatus for unloading compressors. 3,199,770, 8-10-65, Cl. 230-27.
- Shirey, Leland H. Bowling glove. 3,203,006, 8-31-65, Cl. 2-159.
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- Shirley, Oliver L., Sr. Live bait carrier. 3,220,140, 11-30-65, Cl. 43-55.
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- Shirley, Thomas C., and A. E. Elmore; said Elmore assor. to said Shirley. Coupling mechanism and devices incorporating same. 3,214,066, 10-26-65, Cl. 222-209.
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- Jarvis, Howell R., and Shirley. 3,207,686.
- Shirman, Jack, to General Dynamics Corp. Pulse frequency multiplier using delay line with plural taps, each fed by individual diode from source. 3,226,047, 12-28-65, Cl. 328-164.
- Shiro, Teruo, S. Okumura, Y. Tamagawa, T. Tsunoda, M. Takahashi, and S. Motozaki, to Ajinomoto Kabushiki Kaisha. Process for producing nucleosides by microorganisms. 3,222,257, 12-7-65, Cl. 195-28.
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- Shirtum, Roger C., to St. Louis Diecasting Corp. Method of making a seal retainer, or the like. 3,218,705, 11-23-65, Cl. 29-528.
- Shisko, Walter S., to Domtar Ltd. Incombustible board containing mineral and cellulosic fibers and metal oxide and method therefor. 3,220,918, 11-30-65, Cl. 162-145.
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- Shive, William M., and F. J. Clements, to General Electric Co. Impeller designs for food waste disposer. 3,188,012, 6-8-65, Cl. 241-188.
- Shively, Edward H., to Dielectric Products Engineering Co., Inc. H.F. measuring system using differential probe simultaneously responsive to magnetic and electric fields at selected point. 3,213,363, 10-19-65, Cl. 324-95.
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- Shlesinger, Bernard E., Jr. Multiple contact switch with elastic operator. 3,166,645, 1-19-65, Cl. 200-16.
- Shlesinger, Bernard E., Jr. Multiple contact switch having cable switch operating means. 3,193,630, 7-6-65, Cl. 200-16.
- Shlesinger, Bernard E., Jr. Magnetic snap action switch. 3,209,097, 9-28-65, Cl. 200-87.
- Shlesinger, Bernard E., Jr., to AMP Inc. Miniature printed circuit pinboard. 3,217,283, 11-9-65, Cl. 339-18.
- Shlesinger, Bernard E., Jr., to AMP Inc. Miniature contact assembly for plugboards. 3,217,284, 11-9-65, Cl. 339-18.
- Shlesinger, Bernard E., Jr. Programming system-cable tape type switch with deflectable spring contact means. 3,225-149, 12-21-65, Cl. 200-16.
- Shlesinger, Bernard E., Jr., and G. A. Arkwright, 1/2 to J. Y. Dinmore. Bottle anti-theft device. 3,199,708, 8-10-65, Cl. 217-19.
- Shloss, Anthony L., to E. I. du Pont de Nemours and Co. Process for promoting the cure of clay-containing elastomeric copolymer compositions. 3,223,674, 12-14-65, Cl. 260-41.
- Shmoolevich, Bendersky I., K. I. Dmitriyev, M. A. Sergelevich, O. H. Petrovna, and P. K. Konstantinov. Machine for former winding of one- and multi-range coils and laying them into semi-closed stator grooves of electrical machines. 3,191,638, 6-29-65, Cl. 140-92.1.
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- Shoemaker, Douglas. Fishing lure. 3,180,050, 4-27-65, Cl. 43-42.03.
- Shoemaker, Frank M. Transistorized metal detector with temperature compensation means. 3,226,634, 12-28-65, Cl. 324-41.
- Shoemaker, Frank M., and W. D. Carothers. Amplifiers and interconnection circuits. 3,165,589, 1-12-65, Cl. 179-39.
- Shoemaker, George W.: See—
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- Shoemaker, Howard E., to United States of America. Atomic Energy Commission. Method of preparing spherical nuclear fuel particles. 3,179,722, 4-20-65, Cl. 264-15.
- Shoemaker, John H., to Western Electric Co., Inc. Thermal radiation method of measuring coating thickness. 3,188-256, 6-8-65, Cl. 156-244.
- Shoemaker, Joseph J. Steam or hot water boiler. 3,215,124, 11-2-65, Cl. 122-165.
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- Shoenrock, Norbert O. Safety shield for wood and metal lathes. 3,204,499, 9-7-65, Cl. 82-34.
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- Shook, Carl G., to General Dynamics Corp. Readout display system with memory. 3,213,441, 10-19-65, Cl. 340-324.
- Shook, Carl G., to General Dynamics Corp. Memory element. 3,217,301, 11-9-65, Cl. 340-174.
- Shook, Jackson A., to Evans Products Co. Horizontally and vertically adjustable rack. 3,199,464, 8-10-65, Cl. 105-369.
- Shook, Jackson A., and H. E. Rolfe, Jr., to Evans Products Co. Freight bracing apparatus. 3,185,110, 5-25-65, Cl. 105-369.
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- Nevo-Hachoen, Jacob I. 3,197,045.
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- Shoor, Bernard A., to D. H. Wright. Counting and switching unit. 3,202,802, 8-24-65, Cl. 235-92.
- Shoor, Bernard A., and D. R. Burger, to Endeveco Corp. Electromechanical transducer utilizing poisson ratio effects. 3,210,993, 10-12-65, Cl. 73-141.
- Shoor, Bernard A., and D. R. Burger, to Endeveco Corp. Mechanical impedance measuring system. 3,222,919, 12-14-65, Cl. 73-67.1.
- Shoot, Lyle E., to Erie Technological Products, Inc. Microphone. 3,206,558, 9-14-65, Cl. 179-110.
- Shope, William E., to Chrysler Corp. Fuel pump. 3,223,045, 12-14-65, Cl. 103-150.
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- Jones, Lloyd R., Curtis, and Shorb. 3,171,902.
- Shorb, Ray E. T-slot strainer accessory. 3,195,415, 7-20-65, Cl. 90-58.
- Shore, David T., to The A.P.V. Co. Ltd. Production of brewers' wort. 3,171,746, 3-2-65, Cl. 99-51.
- Shore, David T., M. G. Royston, and E. G. Watson, to The A.P.V. Co. Ltd. Continuous fermentation of worts to product alcoholic liquids. 3,173,793, 3-16-65, Cl. 99-52.
- Shore, James B., to Schlumberger Well Surveying Corp. Orienting apparatus and its manufacture. 3,182,724, 5-11-65, Cl. 168-55.1.
- Shore, Joseph L., to Hart Laboratories, Inc. Deodorant preparation. 3,198,251, 8-3-65, Cl. 167-22.
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- Gustafson, Walter R., McMillen, Rounding, and Shore. 3,185,980.
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- Shorner, George L. Hay crushing roll. 3,182,378, 5-11-65, Cl. 29-125.
- Shorr, Leonard M., to Israel Mining Industries-Institute For Research and Development. Preparation of 1,1,2,2-tetrabromethane. 3,196,099, 7-20-65, Cl. 204-163.
- Shorr, Norman, and R. P. Parobek, to Pittsburgh Plate Glass Co. Manufacture of glass. 3,205,932, 9-14-65, Cl. 158-7.
- Shorr, Norman, and J. M. Bursch, to Pittsburgh Plate Glass Co. Glass sheet drawing apparatus with an energy transmitter. 3,212,872, 10-19-65, Cl. 65-203.
- Short, Brooks H., to General Motors Corp. Transistorized ignition system. 3,218,513, 11-18-65, Cl. 315-219.
- Short, Brooks H., and R. L. Sprague, to General Motors Corp. Transistor ignition system having primary circuit resistance control. 3,180,997, 4-27-65, Cl. 290-38.
- Short, Brooks H., and R. L. Konopa, to General Motors Corp. Distributor having magnetic pick-up coil. 3,198,973, 8-3-65, Cl. 310-70.
- Short, Brooks H., and T. E. Kirk, to General Motors Corp. Static transistorized ignition system. 3,202,146, 8-24-65, Cl. 123-148.
- Short Brothers & Harland Ltd.: See—
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- Fillery, William J. 3,204,218.
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- Sandles, John L. 3,192,496.
- Short, Donald L. W., to Burroughs Wellcome & Co. (U.S.A.), Inc. Containers. 3,207,390, 9-21-65, Cl. 222-553.
- Short, Duane F. Spring clip type handle for gas cylinder. 3,177,025, 4-6-65, Cl. 294-33.
- Short, Edward H., III, to National Tank Co. Tilting valve with floating link operator. 3,199,834, 8-10-65, Cl. 251-228.
- Short, Franklin W.: See—
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- Short, Franklin W., to Parke, Davis & Co. 1-aryl-5-(p-fluorophenyl)-pyrrole-2-propionic acid compounds. 3,168,527, 2-2-65, Cl. 260-326.3.
- Short, Franklin W., to Parke, Davis & Co. 1-(p-nitrophenyl) and 1-(p-cyanophenyl)-5-arylpyrrole-2-propionic acid compounds. 3,168,528, 2-2-65, Cl. 260-326.3.
- Short, Franklin W., to Parke, Davis & Co. 1-(p-lower alkanoylphenyl)-5-arylpyrrole-2-propionic acid compounds. 3,168,529, 2-2-65, Cl. 260-326.3.
- Short, Franklin W., to Parke, Davis & Co. 1-aryl-5-(p-lower alkoxyphenyl)-pyrrole-2-propionic acid compounds. 3,168,531, 2-2-65, Cl. 260-326.3.
- Short, Franklin W., to Parke, Davis & Co. 1,5-diarylpyrrole-2-propionic acid compounds. 3,168,532, 2-2-65, Cl. 260-326.3.
- Short, Franklin W., and E. F. Elslager, to Parke, Davis & Co. Parasiticide. 3,218,339, 11-16-65, Cl. 260-391.
- Short, George O., to Grand Taste Packing Co. Sausage casing sizing apparatus. 3,192,559, 7-6-65, Cl. 17-35.
- Short, Harold O.: See—
- McCarthy, George W., and Short. 3,203,490.
- Short, Harold O., to The Black and Decker Mfg. Co. Rotary hammer. 3,170,523, 2-23-65, Cl. 173-104.
- Short, Howard D., and S. Major, to Kosset Carpets Ltd. Dyeing of pile fabrics. 3,185,084, 5-25-65, Cl. 101-115.
- Short, J. R. Milling Co.: See—
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- Short, James A.: See—
- Garrison, Christopher O., and Short. 3,208,392.
- Phelps, Thomas W., and Short. 3,165,066.
- Short, James N., to Phillips Petroleum Co. Carbonation of alkali metal-containing polymers. 3,225,089, 12-21-65, Cl. 260-537.
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- Short, Joe T., to International Leasing Corp. Method and apparatus for the production of pile fabric. 3,217,675, 11-16-65, Cl. 112-79.
- Short, Joe T., to International Leasing Corp. of Georgia. Hollow needle tufting apparatus. 3,217,676, 11-16-65, Cl. 112-79.
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- Simmons, Arthur W., and J. Washbourn, to Westinghouse Brake & Signal Co. Control reservoir pressure release and charging valve device. 3,175,870, 3-30-65, Cl. 303-74.
- Simmons, Cecil E., and J. Rudniski, to Grinnell Corp. Chain riveting machine. 3,182,441, 5-11-65, Cl. 59-7.
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Stumpf, Walter. 3,168,792.
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- Simmons, Eleanor M. Convertible handbag. 3,164,187, 1-5-65, Cl. 150-35.
- Simmons, Elmer C., to Laboratory For Electronics, Inc. Cathode ray tube symbol generator having forward and reverse wound cores. 3,175,208, 3-23-65, Cl. 340-324.
- Simmons, Ernest P. Gun sight. 3,184,851, 5-25-65, Cl. 33-47.
- Simmons, Frederick S.: See—
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- Simmons, George H. Signal controlled adjustable rear view mirror. 3,199,075, 8-3-65, Cl. 340-98.
- Simmons, Gerald F., to General Electric Co. Centering and fastening means for internally supported transformer. 3,175,174, 3-23-65, Cl. 336-92.
- Simmons, Harold C., and L. B. O'Sickey, to Parker-Hannifin Corp. Nozzle. 3,201,050, 8-17-65, Cl. 239-453.
- Simmons, Harold T., to P. R. Mallory & Co., Inc. Adjustable cam time sequence control. 3,221,117, 11-30-65, Cl. 200-38.
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- Simmons, Herbert H. Cleaning device for electric razors. 3,172,416, 3-9-65, Cl. 134-111.
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- Simmons, Lawrence C., to Cleveland Technical Center, Inc. Vehicle wall bracing means. 3,195,944, 7-20-65, Cl. 296-28.
- Simmons, Leonard. Accessory for traveling lawn sprinkler. 3,176,923, 4-6-65, Cl. 239-183.
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- Simmons, Percy A.: See—
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- Simmons, Reid W., to Sjoström Automations, Inc. Fabric straightening and cutting device. 3,192,811, 7-6-65, Cl. 83-175.
- Simmons, Richard W., to Georgia-Pacific Corp. Process for enzymatically modifying organic tanning agents and products thereof. 3,212,996, 10-19-65, Cl. 195-51.
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- Simmons, Royce G.: See—
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- Simmons, Rufus P. Multi-purpose hand tool. 3,186,009, 6-1-65, Cl. 7-16.
- Simmons, Walter H., to Carrier Corp. Fastening apparatus. 3,222,093, 12-7-65, Cl. 285-162.
- Simmons, Walter R., to Townsend Co. Lock bolt gun. 3,180,017, 4-27-65, Cl. 29-252.
- Simmons, Walter R., to Textron Industries, Inc. Pulling head for installing fasteners with stems and locking the stem therein. 3,187,546, 6-8-65, Cl. 72-391.
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- Simms, Bernard B.: See—
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- Simms, Ellsworth W.: See—
- Jenn, Louis J., and Simms. 3,196,862.
- Simms, James B. Detachable bottle handle. 3,171,574, 3-2-65, Cl. 222-467.
- Simms, James S. Tensioning units. 3,184,219, 5-18-65, Cl. 254-29.
- Simms, James S. Pre-stressed concrete reinforced strand tensioning device. 3,194,536, 7-13-65, Cl. 254-29.
- Simms, John A.: See—
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- Simms, John A., to E. I. du Pont de Nemours and Co. Terpolymers containing at least 65% ethylene. 3,201,374, 8-17-65, Cl. 260-80.5.
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- Miracki, Zdzislaw S., and Lindsay. 3,185,141.
- Simms, Victor A., 15% to Gausewitz & Carr. Lifting device. 3,195,860, 7-20-65, Cl. 254-2.
- Simnad, Massoud T., to United States of America, Atomic Energy Commission. Method and apparatus for making dense bodies of refractory materials. 3,182,102, 5-4-65, Cl. 264-21.
- Simon, Allen H., and H. Weinstein, to Radio Corp. of America. Means for modifying the waveform of a pulse as it passes through controlled delay line. 3,177,433, 4-6-65, Cl. 328-58.
- Simon, Andrew, to The American Monorail Co. Remote motor control system. 3,181,047, 4-27-65, Cl. 318-202.
- Simon, Arthur, and G. A. Weber, to The Bendix Corp. Multiplexed servo systems with inertial reaction torque compensation. 3,168,838, 2-9-65, Cl. 74-388.
- Simon, Arthur J.: See—
- Carpenter, Ivan H., and Simon. 3,216,181.
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- Simpson, Peter, Clough, and Todhunter. 3,167,390.
- Wood, Charles W., Clough, Abson, and Murphy. 3,208,734.
- Simon, Edwin G. Banjo construction. 3,203,296, 8-31-65, Cl. 84-269.
- Simon, Franz E., K. Fuchs, and R. E. Peterls, to United States of America, Atomic Energy Commission. Diffusion separation of fluids. 3,208,197, 9-28-65, Cl. 55-16.
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- Simon, Harry, and H. Maglio, to Air Reduction Co., Inc. Resistor-ceramic control network for fluorescent lamp starters. 3,171,061, 2-23-65, Cl. 315-309.
- Simon, Henry, Ltd.: See—
- Bingham, John D. 3,193,098.
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- Marlow, Anthony V., and Allen. 3,211,385.
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- Simon, Johann H. Insulating sleeve for guiding cables through a wall opening. 3,197,556, 7-27-65, Cl. 174-153.
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- Simon, Oskar: See—
- Fezer, Eberhard, Frese, Hejj, Simon, Schmid, and Elnbeck. 3,208,666.
- Simon, Paul W.: See—
- Morris, Charles L., Jr., and Simon. 3,222,345.
- Simon, Peter. Weatherproof electrical installation with pivotally attached hood means. 3,188,379, 6-8-65, Cl. 174-38.
- Simon, Robert H. M.: See—
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- Simon, Steven A.: See—
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- Simon, William F., to Sperry Rand Corp. Transistor compensating circuit for magnetic recording head. 3,188,616, 6-8-65, Cl. 340-174.1.
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- Simonds, Milton R.: See—
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- Simonton, Robert D., to Union Carbide Corp. Resiliently jacketed battery assembly. 3,220,886, 11-30-65, Cl. 136-132.
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- Simplex Forms Systems, Inc.: See—
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- Simplex Nail & Mfg. Corp.: See—
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- Simpson, Forrest L., to International Harvester Co. Flexible cotton picker spindle. 3,164,941, 1-12-65, Cl. 56-50.
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- Simpson, Robert F., to The Monarch Rubber Co. Method of making rubber bushings. 3,199,186, 8-10-65, Cl. 29-450.
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- Sims, Darrell L., to Eastman Oil Well Survey Co. Whipstock engaging and releasing device. 3,215,204, 11-2-65, Cl. 166-117.5.
- Sims, Edward H., L. Sneesby, and W. S. Soutar, to The National Cash Register Co. Reciprocable-handle-actuated full cycle driving mechanism. 3,202,020, 8-24-65, Cl. 74-812.
- Sims, James G.: See—
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- Sims, James G., to Monsanto Co. Process for the manufacture of spinnerets for melt spinning. 3,174,364, 3-23-65, Cl. 76-107.
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- Sims, Raymond B., to Davy and United Engineering Co. Ltd. Rolling mills. 3,169,423, 2-16-65, Cl. 80-38.
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- Slater, Arthur B., to Raytheon Co. Continuous wave radar systems. 3,189,899, 6-15-65, Cl. 343-14.
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- Slatin, Harvey L., to Timax Associates. Apparatus for programming and automation. 3,178,716, 4-13-65, Cl. 346-33.
- Slator, Damon T., and H. A. Baugh, to Bowen Tools, Inc. Apparatus for feeding tubing or other objects. 3,182,877, 5-11-65, Cl. 226-172.
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- Smith, Donald O., to Massachusetts Institute of Technology. Magnetic domain-wall storage and logic. 3,176,276, 3-30-65, Cl. 340-174.
- Smith, Donald P., R. A. Zuercher, W. R. Luck, Jr., W. E. Hultsman, and L. D. Cook, to Applied Developments Inc. of Texas. Method and machine for wrapping continuously moving products with a flexible overwrap. 3,222,844, 12-14-65, Cl. 53-32.
- Smith, Dora F.: See—
- Smith, Vern W. 3,220,425.
- Smith-Douglas Co., Inc.: See—
- Lewis, Jack J., and Griffin. 3,178,261.
- Smith, Douglas W., to V-M Corp. Braking mechanism for tape recorders. 3,217,994, 11-16-65, Cl. 242-55.12.
- Smith, Earl, and W. R. Sherman, Jr. Line or pipe detector for earth moving machinery. 3,190,476, 6-22-65, Cl. 214-138.
- Smith, Earl K., to Hart Heat, Inc. Dribble vaporizer for an oil burner nozzle. 3,190,342, 6-22-65, Cl. 158-76.
- Smith, Edgar H.: See—
- Gehman, Roland P., Martin, and Smith. 3,186,016.
- Smith, Edgar J., and M. Masel, to General Precision Inc. Digital servo system. 3,226,617, 12-28-65, Cl. 318-28.
- Smith, Edmond L., to Combustion Engineering, Inc. Apparatus for collecting fume from recovery unit gases. 3,212,850, 10-19-65, Cl. 23-262.
- Smith, Edward E. Apparatus for agitating and polishing materials. 3,197,922, 8-3-65, Cl. 51-163.
- Smith, Edward H., and D. E. Stone, to United States of America, Navy. Method and apparatus employing acoustic energy for increasing fluid flow. 3,165,061, 1-12-65, Cl. 103-1.
- Smith, Edward M., to Trymac Corp. Plug valve with improved expandable plug. 3,193,244, 7-6-65, Cl. 251-161.
- Smith, Edward P., to Illinois Railway Equipment Co. Car construction. 3,170,740, 2-23-65, Cl. 308-137.
- Smith, Edward W. Vibrating ball mill method and apparatus. 3,215,354, 11-2-65, Cl. 241-30.
- Smith, Edwin E., to Fluid Dynamics Corp. Rotary pump. 3,195,470, 7-20-65, Cl. 103-131.
- Smith, Edwin G., & Co., Inc.: See—
- Mostoller, George. 3,209,503.
- Smith, Edwin J., M. G. Vucich, and L. W. Austin, to National Steel Corp. Base materials coated with an alloy of aluminum and manganese. 3,167,403, 1-26-65, Cl. 29-196.2.
- Smith, Edwin J., and E. P. Spencer, to National Steel Corp. Steel foil and manufacture. 3,214,820, 11-2-65, Cl. 29-18.
- Smith, Edwin J., M. G. Vucich, and L. W. Austin, to National Steel Corp. Continuous electroplating apparatus. 3,226,315, 12-28-65, Cl. 204-206.
- Smith, Edwin S., and J. E. Sell, to The Goodyear Tire & Rubber Co. Preparation of high solids vinyl chloride polymer latex. 3,226,350, 12-28-65, Cl. 260-29.6.
- Smith, Egerton, Engineers Ltd.: See—
- Smith, George E., and Chantler. 3,215,921.
- Smith, Elbridge G. Inflatable garment holder and drying device. 3,184,127, 5-18-65, Cl. 223-67.
- Smith, Eldred T.: See—
- Wall, James E., Smith, and Fisher. 3,174,948.
- Smith, Eric, to Olin Mathieson Chemical Corp. Isocyanates stabilized with polybutylated 4,4'-isopropylidenebisphenol. 3,226,411, 12-28-65, Cl. 260-453.
- Smith, Eric, to Olin Mathieson Chemical Corp. Stabilization of organic isocyanates with diphenyl carbazide. 3,226,412, 12-28-65, Cl. 260-453.
- Smith, Eric, to Olin Mathieson Chemical Corp. Stabilization of organic isocyanates with hydrazine compounds. 3,226,413, 12-28-65, Cl. 260-453.
- Smith, Eric, to Olin Mathieson Chemical Corp. Organic isocyanates stabilized with dinitrogen compounds. 3,226,414, 12-28-65, Cl. 260-453.
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- Smith, Eric, to D. Scholes, to D.S.T. Pattern and Engineering Co. Ltd. Doctor knives. 3,163,878, 1-5-65, Cl. 15-256.51.
- Smith, Ernest L., to Glaxo Laboratories Ltd. Hydroxocobalamin. 3,167,539, 1-26-65, Cl. 260-211.5.
- Smith, Ernest L., and A. R. Duffy, to Texas Eastern Transmission Corp. Cryogenic storage tank. 3,196,622, 7-27-65, Cl. 62-45.
- Smith, Ernest L., L. Mervyn, and V. M. Clark, to Glaxo Group Ltd. Cobamide derivatives. 3,213,082, 10-19-65, Cl. 260-211.5.
- Smith, Elroy C., Jr., and J. L. Thomas, to North American Aviation, Inc. Multiplexing circuit with feedback to a constant current source. 3,194,985, 7-13-65, Cl. 307-88.5.
- Smith, Eugene M.: See—
- Mathews, Charles A., and Smith. 3,202,876.
- Smith, Everett D., to Monogram Industries, Inc. Quick adjustable clamp. 3,218,058, 11-16-65, Cl. 269-166.
- Smith, F., & Co. (Whitworth) Ltd.: See—
- Walsh, John. 3,199,317.
- Smith, Floyd A., to Jersey Production Research Co. Plastic coating of cement nodules. 3,180,416, 4-27-65, Cl. 166-33.
- Smith, Floyd E. Apparatus and method for moving parts. 3,215,261, 11-2-65, Cl. 198-226.
- Smith, Floyd E. Motion transfer device. 3,220,267, 11-30-65, Cl. 74-20.
- Smith, Floyd E., W. C. Taylor, and G. J. Gardner, to Automation Devices, Inc. Material handling system. 3,220,443, 11-30-65, Cl. 140-147.
- Smith, Francis M., to Gulf Research & Development Co. Ignition of fuels below the surface of the ground. 3,172,472, 3-9-65, Cl. 166-38.
- Smith, Francis M., to Gulf Research and Development Co. Method for perforating a well. 3,195,631, 7-20-65, Cl. 166-35.
- Smith, Francis M., to Gulf Research & Development Co. Consolidation of incompetent subsurface formations. 3,217,800, 11-16-65, Cl. 166-25.
- Smith, Francis P. Coasting vehicle steered by tiltable rider supporting means. 3,226,130, 12-28-65, Cl. 280-22.
- Smith, Francis R. Magnetic tape transducing apparatus. 3,177,299, 4-6-65, Cl. 179-100.2.
- Smith, Frank B., Jr., and S. G. McNeill. Combination golf ball carrier and dispenser. 3,206,067, 9-14-65, Cl. 221-281.
- Smith, Frank E. Apparatus for the electrolytic production of high-purity iron. 3,192,145, 6-29-65, Cl. 204-234.
- Smith, Frank E., to M. A. Traylor. Seed planter attachment. 3,220,370, 11-30-65, Cl. 111-51.
- Smith, Frank G.: See—
- Mason, Frederick, Stevens, and Smith. 3,201,512.
- Smith, Frank J.: See—
- Crowley, Daniel L., Smith, and Jennings. 3,172,473.
- Smith, Frank J., and R. B. Witmyer, to AMP Inc. Fluid operated crimping tool. 3,212,316, 10-19-65, Cl. 72-412.
- Smith, Frank R., and J. D. Hopkins, to Walker Mfg. Co. Pipe holder. 3,171,178, 3-2-65, Cl. 24-253.
- Smith, Fred, and E. F. Graham, to The Regents of the University of Minnesota. Preservation of animal semen. 3,185,623, 5-25-65, Cl. 167-53.2.
- Smith, Fred T., to Whiting Corp. Overhead crane with skew control. 3,204,577, 9-7-65, Cl. 106-163.
- Smith, Frederic M., to United States Steel Corp. Apparatus for delivering pipe lengths sidewise as discharged from rotary straightener or the like. 3,207,289, 9-21-65, Cl. 198-107.

- Smith, Frederic R., and E. A. Snidar, to O. & S. Bearing & Mfg. Co. Ball joint. 3,216,764, 11-9-65, Cl. 287-87.
- Smith, Frederick A., to Union Carbide Corp. Organosiloxane compositions containing alkoxydisilanes as room temperature cross-linking agents. 3,165,494, 1-12-65, Cl. 260-37.
- Smith, Frederick H., Jr., to Xerox Corp. Apparatus for forming coatings on printed circuit boards. 3,207,127, 9-21-65, Cl. 118-53.
- Smith, Frederick J.: See—
- Kersey, Albert H., and Smith. 3,175,424.
- Smith, Frederick J., and E. Green, to Ford Motor Co. Dual friction clutches. 3,215,233, 11-2-65, Cl. 192-48.
- Smith, G. E.: See—
- Dettore, Frank. 3,220,071.
- Smith, Gail D., to United States of America, Navy. D.C. regulated power supply employing means for adjusting the input in response to output voltage variations. 3,207,973, 9-21-65, Cl. 321-18.
- Smith, Gary L., and H. R. De Weese. Support for self-contained breathing apparatus. 3,204,775, 9-7-65, Cl. 211-75.
- Smith-Gates Corp.: See—
- Chapman, Donald M., Jr. 3,209,128.
- Smith, Gaylord D., to E. I. du Pont de Nemours and Co. Cobalt alloys. 3,180,012, 4-27-65, Cl. 29-182.5.
- Smith, Gene W. Drafting machine. 3,172,206, 3-9-65, Cl. 33-79.
- Smith, Gene W. Power driven miniature aircraft. 3,172,230, 3-9-65, Cl. 46-75.
- Smith, Genevieve M. 1/2 to Sacred Heart Hospital. Swinging sling. 3,199,509, 3-10-65, Cl. 128-94.
- Smith, Geoffrey, to Polymark (Holdings) Ltd. Laundry washing machines. 3,201,958, 8-24-65, Cl. 68-58.
- Smith, George E., and R. Chantler, to Egerton Smith Engineers Ltd. Control devices. 3,215,921, 11-2-65, Cl. 318-473.
- Smith, George E. P., Jr., to The Firestone Tire & Rubber Co. N-(propenyl)-2-(thiazole)sulfenamides as rubber accelerators. 3,223,684, 12-14-65, Cl. 260-79.5.
- Smith, George H., and R. E. Armstrong, Jr., to Union Carbide Corp. Burner apparatus for refining metals. 3,175,817, 3-30-65, Cl. 266-34.
- Smith, George K.: See—
- Smith, Otto W. and G. K. 3,175,715.
- Smith, George N., to Ingersoll-Rand Co. Sealing device. 3,182,470, 5-11-65, Cl. 64-26.
- Smith, George W. Molded article. 3,186,118, 6-1-65, Cl. 40-154.
- Smith, George W., to General Motors Corp. Temperature measuring device. 3,212,336, 10-19-65, Cl. 73-362.
- Smith, George W., and D. D. Slavinskis, to Esso Production Research Co. System for obtaining a composite seismic signal by generating a number of discrete single frequency seismic waveforms and recording individually the detected reflections. 3,221,297, 11-30-65, Cl. 340-15.5.
- Smith, Gerald D., and H. R. Wantz, Jr., to James R. Kearney Corp. Blowout fuse with disintegrating end closure. 3,217,126, 11-9-65, Cl. 200-132.
- Smith, Gerald L. Vehicle warning system. 3,185,992, 5-25-65, Cl. 343-228.
- Smith, Glen A., to General Motors Corp. Counterbalance assembly. 3,199,914, 8-10-65, Cl. 296-106.
- Smith, Glen T.: See—
- Battista, Orlando A., and Smith. 3,192,118.
- Smith, Graydon, to Connecticut Valley Enterprises, Inc. Electromagnetic relay with contact supported armature. 3,178,532, 4-13-65, Cl. 200-87.
- Smith, Graydon, to Connecticut Valley Enterprises, Inc. Electromagnetic relays. 3,183,324, 5-11-65, Cl. 200-87.
- Smith, Grover C. Toothpaste dispenser and brush holder. 3,199,736, 8-10-65, Cl. 222-93.
- Smith, Guilford H. Garbage can holder. 3,169,742, 2-16-65, Cl. 248-146.
- Smith, Harlan D., and W. R. Weiss, to Wellsville Fire Brick Co. Bauxite brick and process of making the same. 3,202,735, 8-24-65, Cl. 264-56.
- Smith, Harold J., and H. E. Boudreau, to Cyclops, Inc. Refrigerating system including an accumulator. 3,224,217, 12-21-65, Cl. 62-221.
- Smith, Harold W. Golf putter and a foldable sighting element secured to the shaft thereof by Y-shaped magnet means. 3,198,525, 8-3-65, Cl. 273-163.
- Smith, Harold W. Exhaust-liquid heat exchanger for internal combustion engines. 3,201,934, 8-24-65, Cl. 60-31.
- Smith, Harold W., and C. E. Weighted practice golf ball including stabilizer fins. 3,198,526, 8-3-65, Cl. 273-199.
- Smith, Harris W., and R. H. Hunter. Solid Smith assor. to said Hunter. Incandescent ceramic electrical igniter. 3,207,953, 9-21-65, Cl. 317-96.
- Smith, Harry, to Imperial Chemical Industries Ltd. Preparation of ethylene dichloride. 3,222,408, 12-7-65, Cl. 260-659.
- Smith, Harry A.: See—
- Baumann, Michael F., Lawton, and Smith. 3,167,444.
- Smith, Harry B.: See—
- Nelson, Walter E., and Smith. 3,209,200.
- Smith, Harry J., to Optical Measuring Tools Ltd. Rotary work-supporting table for machine tools and the like. 3,207,006, 9-21-65, Cl. 74-815.
- Smith, Harry M., and H. M. Swindler, to Industrial Products Corp. Vegetation mower and blade. 3,220,170, 11-30-65, Cl. 56-255.
- Smith, Harvey G. Electronic warning device. 3,182,288, 5-4-65, Cl. 340-34.
- Smith, Hayden, Jr.: See—
- Norman, James, Smith, and Thompson. 3,197,663.
- Smith, Hayden M., to The Bendix Corp. Narrow beam electron source for the ion source of a mass spectrometer. 3,171,024, 2-23-65, Cl. 250-41.9.
- Smith, Helen S.: See—
- Smith, Richard J. 3,212,405.
- Smith, Herbert D., to Hi-Yield Fertilizer Co. Package for rodenticides. 3,177,610, 4-13-65, Cl. 43-131.
- Smith, Herchel: See—
- Hughes, Gordon A., and Smith. 3,202,686.
- Smith, Herchel, L. L., and J. F. Fisher, to American Home Products Corp. Novel steroidal 17-ketals and related compounds. 3,189,605, 6-15-65, Cl. 260-239.55.
- Smith, Herman E., to Goodman Mfg. Co. Troughing roller assemblies. 3,199,661, 8-10-65, Cl. 198-192.
- Smith, Homer A.: See—
- Sawyer, Edgar W., Jr., and Smith. 3,169,053.
- Smith, Homer E.: See—
- Baler, John P., Smith, and Fritz. 3,181,387.
- Smith, Homer P., to United States Rubber Co. Emulsion polymerization of butadiene hydrocarbons by means of a divalent cobalt salt of beta-diketones. 3,226,376, 12-28-65, Cl. 260-94.3.
- Smith, Horace L., Jr., to Hupp Corp. Automatic heater control for a paper drying system. 3,174,228, 3-23-65, Cl. 34-43.
- Smith, Horace L., Jr., to Hupp Corp. Drum type heat transfer apparatus. 3,177,932, 4-13-65, Cl. 165-88.
- Smith, Horace L., Jr., to Hupp Corp. Uniformly heated rotary drum. 3,181,605, 5-4-65, Cl. 165-90.
- Smith, Horace L., Jr., to Hupp Corp. Roasting and heating methods. 3,189,460, 6-15-65, Cl. 99-68.
- Smith, Horace L., Jr., to Hupp Corp. Dryers. 3,208,158, 9-28-65, Cl. 34-122.
- Smith, Horace L., Jr., to Hupp Corp. Heat treating method and apparatus for sheet or web material. 3,221,416, 12-7-65, Cl. 34-41.
- Smith, Horace L., Jr., and E. G. Mueller, to Hupp Corp. Thread winding machine. 3,166,263, 1-19-65, Cl. 242-464.
- Smith, Howard A.: See—
- Herbenar, Edward J., and Smith. 3,219,372.
- Smith, Howard B., Jr.: See—
- Kaiser, Julius A., Jr., Smith, Little, and Pepper. 3,175,217.
- Smith, Howard E.: See—
- Wampler, Frank D., Smith, and Marman. 3,166,438.
- Smith, Howard M.: See—
- Thurston, Raymond L., and Smith. Re. 25,769.
- Smith, Hoyt W., to Le Tourneau-Westinghouse Co. Wheel construction. 3,224,484, 12-21-65, Cl. 152-410.
- Smith, Hubert C., to BSR Ltd. Electro-magnetic heads. 3,194,594, 7-13-65, Cl. 179-100.2.
- Smith, Hubert S., Jr., to The Dow Chemical Co. Method and apparatus for continuously forming plastic articles. 3,226,457, 12-28-65, Cl. 264-90.
- Smith, Hugh G.: See—
- Zorena, Peter J., Smith, and Kapitan. 3,225,180.
- Smith, Hugh R., Jr.: See—
- Hunt, Charles d'A., and Smith. 3,199,947.
- Smith, Hugh R., Jr., to United States Steel Corp. Crucible for vaporizing metal. 3,172,649, 3-9-65, Cl. 263-48.
- Smith, Hugh R., Jr., to Temescal Metallurgical Corp. Foil production. 3,181,209, 5-4-65, Cl. 22-57.4.
- Smith, Hugh R., Jr., to Temescal Metallurgical Corp. Apparatus for continuous foil production by vapor deposition. 3,183,563, 5-18-65, Cl. 22-57.3.
- Smith, Hugh R., Jr., to Stauffer Chemical Co. Electron-beam furnace with magnetically guided beam. 3,189,953, 6-22-65, Cl. 22-57.2.
- Smith, Hugh R., Jr., to Temescal Metallurgical Corp. High vacuum diffusion pump. 3,203,624, 8-31-65, Cl. 230-101.
- Smith, Ira E.: See—
- Johnson, Carl T., and Smith. 3,172,002.
- Smith, Ira L.: See—
- Morrow, Alfred C., and Smith. 3,200,013.
- Smith, J. Perry: See—
- Clark, George L., and Smith. 3,201,654.
- Smith, James A. Game apparatus comprising master playing board, multiple player pieces and individual player work boards having scoring indicia. 3,191,938, 6-29-65, Cl. 273-135.
- Smith, James B.: See—
- Lively, Lawrence D., Jaynes, and Smith. 3,205,700.
- Powley, Mallinson, Smith, McCallum, and Matthews. 3,164,828.
- Powley, Mallinson, Smith, McCallum, and Matthews. 3,164,830.
- Smith, James B. Oil treating apparatus for separating oil, gas and water. 3,193,980, 7-13-65, Cl. 55-175.
- Smith, James B. Well fluid separating method. 3,205,640, 9-14-65, Cl. 55-32.
- Smith, James D., and R. T. Davies, to Ronson Corp. Torch attachment. 3,223,139, 12-14-65, Cl. 158-33.
- Smith, James E.: See—
- Carver, Richard N., Lohr, and Smith. 3,199,249.
- Smith, James E., P. J. Sweeny, and R. M. Miller, to Westinghouse Electric Corp. Dynamoelectric machines. 3,201,625, 8-17-65, Cl. 310-154.

- Smith, James E., and E. C. Watson, to Westinghouse Electric Corp. Permanent magnet motor and flux adjusting apparatus for use therein. 3,214,620, 10-26-65, Cl. 310-181.
- Smith, James H., Jr.: See—
- Harkin, Thomas E., and Smith. 3,218,231.
- Smith, James K., to The Boeing Co. Wave guide gating device employing an offset variable resistance diode in the intermediate cavity section. 3,178,660, 4-13-65, Cl. 333-24.
- Smith, James L.: See—
- Harrington, Robert C., Jr., and Smith. 3,213,046.
- Smith, James M.: See—
- Laube, Robert A., and Smith. 3,177,909.
- Smith, James R.: See—
- Barber, Forest C., and Smith. 3,223,088.
- Smith, James T., to J. R. Sheesley. Impact absorbing apparatus. 3,176,856, 4-6-65, Cl. 213-43.
- Smith, James T., and O. Chierici, to Keystone Railway Equipment Co. Impact absorbing apparatus. 3,168,201, 2-2-65, Cl. 213-8.
- Smith, Jean G.: See—
- Fitch, Frederick T., and Smith. 3,186,949.
- Smith, Jean G., and F. T. Fitch, to W. R. Grace & Co. Process for preparing uranous oxide sols. 3,189,555, 6-15-65, Cl. 252-301.1.
- Smith, John: See—
- Jackson, Squire R., and Smith. 3,188,798.
- Smith, John B. Dinghy stowing support. 3,216,388, 11-9-65, Cl. 114-43.5.
- Smith, John C., B. H. Miles, and L. Levine, to The Dow Chemical Co. Bis(hydrogen phosphonate)diesters of glycols and process for making same. 3,188,341, 6-8-65, Cl. 260-461.
- Smith, John E.: See—
- Cameron, Donald J., Ensinger, and Smith. 3,177,812.
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- Mack, Harold J., Smith, Yaccarino, and Smith. 3,196,790.
- Smith, John E., to Holley Carburetor Co. Speed limiter for fuel burning engines. 3,172,458, 3-9-65, Cl. 158-36.3.
- Smith, John E., and R. A. Starry, to United States of America, Navy. Store release mechanism. 3,221,701, 12-7-65, Cl. 114-235.
- Smith, John F.: See—
- Brock, Carl M., Drees, and Smith. 3,190,930.
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- Smith, John F. Apparatus for gravel packing wells. 3,173,486, 3-16-65, Cl. 166-116.
- Smith, John F. D., to Carrier Corp. Heat exchanger. 3,168,137, 2-2-65, Cl. 165-110.
- Smith, John F. D., to Carrier Corp. Heat exchanger. 3,170,512, 2-23-65, Cl. 165-110.
- Smith, John G., and E. R. Solyst, to Burrroughs Corp. Valve assembly. 3,176,714, 4-6-65, Cl. 137-596.16.
- Smith, John H., to Continental Oil Co. Manufacture of petroleum coke. 3,173,852, 3-16-65, Cl. 208-46.
- Smith, John H. W., E. F. Thomson, and W. Gibson, to The Daily Mirror Newspaper Ltd. Assembly unit for articles discharged from a conveyor system. 3,166,178, 1-19-65, Cl. 198-34.
- Smith, John J.: See—
- Mueller, Frank H., and Smith. 3,185,171.
- Mueller, Frank H., and Smith. 3,223,110.
- Smith, John W., and John J., and Hawkins. 3,186,861.
- Smith, John J. Nozzle for windshield washers and the like. 3,173,613, 3-16-65, Cl. 239-284.
- Smith, John L.: See—
- Abraham, Milton E., and Smith. 3,175,950.
- Smith, John O.: See—
- McHugh, Kenneth L., and Smith. 3,173,873.
- McHugh, Kenneth L., and Smith. 3,201,350.
- Smith, John O., to Monsanto Research Corp. Nitrol compounds as depolarizers. 3,181,972, 5-4-65, Cl. 136-90.
- Smith, John O., C. N. Sattelfeld, and B. M. Fabuss, to Monsanto Research Corp. Operation and cooling of flight vehicles with hydrocarbons. 3,173,247, 3-16-65, Cl. 60-35.4.
- Smith, John O., and A. M. Pomponi, to Monsanto Research Corp. Trialkylcyclohexane high energy fuels and propulsion process. 3,201,935, 8-24-65, Cl. 60-35.4.
- Smith, John S., to Scripto, Inc. Marking element and dispensing means therefor. Re. 25,741, 3-9-65, Cl. 120-19.
- Smith, John V., and G. W. Luke, Jr., to United States of America, Navy. Microwave switch having diodes situated in the waveguide channels to control coupling between common and branch channels. 3,178,659, 4-13-65, Cl. 333-7.
- Smith, John W., to Hogan Faximile Corp. Facsimile coincidence phasing control circuit. 3,184,546, 5-18-65, Cl. 178-69.5.
- Smith, John W., to Hogan Faximile Corp. Electrolytic facsimile recorder apparatus. 3,184,750, 5-18-65, Cl. 346-74.
- Smith, John W., to Battle Creek Packaging Machines, Inc. Machines for sealing wrappers of polyolefin sheet material around packages. 3,187,484, 6-8-65, Cl. 53-379.
- Smith, John W. Machine for spreading and compacting surfacing material. 3,213,769, 10-26-65, Cl. 94-46.
- Smith, John W., to The Mead Corp. Method and apparatus for producing cast coated paper. 3,224,897, 12-21-65, Cl. 117-64.
- Smith, John W., D. Shaler, and H. C. Reessler, to Hogan Faximile Corp. Facsimile sync pulse generation system. 3,173,993, 3-16-65, Cl. 178-69.5.
- Smith, John W., and D. F. Cleary, to Hogan Faximile Corp. Recorder power supply. 3,185,912, 5-25-65, Cl. 321-18.
- Smith, John W. and John J., and E. A. Hawkins, to The Mead Corp. Process for producing pressure sensitive record paper. 3,186,861, 6-1-65, Cl. 117-36.1.
- Smith, John W. and E. G. Guenther, to Eastman Kodak Co. Tow bale. 3,206,021, 9-14-65, Cl. 206-83.5.
- Smith, Jonathan: See—
- Troglione, Vincent R., and Smith. 3,222,043.
- Troglione, Vincent R., Smith, and Roth. 3,166,305.
- Smith, Joseph C., to Peterson Machine Tool, Inc. Crankshaft welding machine. 3,205,836, 9-7-65, Cl. 219-76.
- Smith, Joseph E., Jr.: See—
- Ashbridge, G. Harry, Casey, Francois, Lohan, Smith, and Mitchell. 3,218,518.
- Smith, Joseph E., Jr., to Ex-Cell-O Corp. Aerodynamically supported magnetic head construction for magnetic drums, discs and the like. 3,187,112, 6-1-65, Cl. 179-100.2.
- Smith, Joseph E., Jr., to Ex-Cell-O Corp. Positioning method and apparatus for magnetic head in a magnetic recording device. 3,187,313, 6-1-65, Cl. 340-174.1.
- Smith, Joseph E., Jr., to Ex-Cell-O Corp. Disc file. 3,187,817, 6-1-65, Cl. 340-174.1.
- Smith, Joseph E., Jr., to Ex-Cell-O Corp. Magnetic transducer head mounting means. 3,197,750, 7-27-65, Cl. 340-174.1.
- Smith, Joseph F. High speed spindle apparatus. 3,180,074, 4-27-65, Cl. 57-77.45.
- Smith, Joseph P., to Davey and United Instruments Ltd. System for eliminating cyclic variations in rolling mill gauge errors. 3,194,035, 7-13-65, Cl. 72-8.
- Smith, Joseph R., Jr., to United States of America, National Aeronautics and Space Administration. Temperature compensated solid state differential amplifier. 3,196,362, 7-20-65, Cl. 330-14.
- Smith, Joseph W.: See—
- Steer, Donald E., and Smith. 3,180,349.
- Steer, Donald E., and Smith. 3,207,172.
- Smith, Joseph W. Adapter for tubeless tire valve and assembly. 3,213,915, 10-26-65, Cl. 152-427.
- Smith, Julius L., Jr., to Collins Radio Co. Air pressure sensitive bridge. 3,193,760, 7-6-65, Cl. 323-75.
- Smith, Keith J.: See—
- Well, Edward D., Geering, and Smith. 3,200,146.
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Smith, Thomas R., to The Maytag Co. Control system for fabric drying apparatus. 3,197,884, 8-3-65, Cl. 34-45.
Smith, Thomas R., to The Maytag Co. Control device for driers. 3,197,885, 8-3-65, Cl. 34-45.
Smith, Thomas R., to The Maytag Co. Drier control. 3,200,511, 8-17-65, Cl. 34-45.
Smith, Thomas R., to The Maytag Co. Token collection device. 3,214,089, 10-26-65, Cl. 232-15.
Smith, Thomas R., G. J. Davis, W. J. McNally, and J. R. Cochran, to The Maytag Co. Method of washing and bleaching fabrics. 3,197,271, 7-27-65, Cl. 8-137.
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Smith, Vern W., deceased; D. F. Smith, executrix. Lubricating device. 3,220,425, 11-30-65, Cl. 134-168.
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Jackson, John G., and Smith. 3,195,661.
Smith, Vincent K.: See—
Turk, James R. 2,188,153.
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Smith, W. Robert: See—
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Smith, Wallace L., W. D. Huntington, and M. Frey, to Guy F. Atkinson Co. Pump lubrication system. 3,220,352, 11-30-65, Cl. 103-111.
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Smith, Walter H. B., deceased, by K. B. Groves, executrix, to A. Denhoff, substitute executrix. Shotgun frame and block assembly. 3,222,808, 12-14-65, Cl. 42-44.
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Smith, Walter J., D. R. Hamilton, and J. J. Coleman, to Westinghouse Electric Corp. Apparatus for producing crystalline semiconductor material. 3,212,858, 10-19-65, Cl. 23-273.
Smith, Walter S., to Miehle-Goss Dexter, Inc. Device for separating stacked sheets. 3,190,642, 6-22-65, Cl. 271-42.
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Smith, Warren K. Spectroprometer apparatus and method. 3,222,930, 12-14-65, Cl. 73-355.
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Ferber, Robert R., Smith, and Trimmer. 3,225,140.
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Smith, Weston E., and W. K. Lehmann, to The C. M. Kemp Mfg. Co. Method and apparatus for purifying gaseous mixtures by cyclic adsorption. 3,225,516, 12-28-65, Cl. 55-25.
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Glesse, Robert C., and Smith. 3,165,470.
Graybeal, Warren E., and Smith. 3,223,255.
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Smith, William C., to Corning Glass Works. Method for forming enclosures for semiconductor devices. 3,220,095, 11-30-65, Cl. 29-155.5.
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Smithson, Wayne A. Method and apparatus for deflection drilling. 3,194,327, 7-13-65, Cl. 175-61.
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- Smoker, Norman B., to Sperry Rand Corp. Feeder for stock animals. 3,191,582, 6-29-65, Cl. 119-61.
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- Snook, William R., Jr. Control mechanism. 3,223,366, 12-14-65, Cl. 244-90.
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- Snow, Richard K., G. J. Gendron, and L. J. Phares, to Raymond International Inc. Filling of pile shells with concrete. 3,186,181, 6-1-65, Cl. 61-53.5.
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- Snow, Roland B., to United States Steel Corp. Method of obtaining even flow of gases through a regenerator. 3,207,817, 9-21-65, Cl. 263-52.
- Snow, Theodore R. Device for holding hair curler rollers. 3,221,891, 12-7-65, Cl. 211-13.
- Snow, Thomas W., and L. A. Severy, to United Shoe Machinery Corp. Platform cover turning machine. 3,166,770, 1-26-65, Cl. 12-1.
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- Snyder, Harry R., Jr., to The Norwich Pharmacal Co. Diethyl[2-(5-nitrofurfurylidene)hydrazino]thiophosphate. 3,178,453, 4-13-65, Cl. 260-347.2.
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- Sparling, Ray C., and J. A. Braun, to Hersey-Sparling Meter Co. Magnetic drive for fluid flow meters. 3,169,398, 2-16-65, Cl. 73-231.
- Sparling, Robert J., to Bausch & Lomb Inc. Microscope optical system including concave reflector element. 3,196,742, 7-27-65, Cl. 88-39.
- Sparrow, Hubert T., to Honeywell Inc. Gas control system. 3,171,468, 3-2-65, Cl. 158-115.
- Sparrow, Hubert T., to Honeywell Inc. Pulsed fluid amplifier. 3,176,703, 4-6-65, Cl. 81-5.
- Sparrow, Hubert T., to Honeywell Inc. Modulated control system. 3,176,919, 4-6-65, Cl. 236-68.
- Sparrow, Kenneth M., to Lima Electric Motor Co., Inc. Dynamo electric machine. 3,210,644, 10-5-65, Cl. 322-25.
- Sparrow, Vernon W., to Bell Punch Co. Ltd. Data recording machines. 3,184,160, 5-18-65, Cl. 235-60.15.
- Sparrow, William T.: *See*—
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- Sparwald, Volker, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method of producing aluminum. 3,186,832, 6-1-65, Cl. 75-68.
- Spates, Henry M., to H & H Engineering Co. Tube bending mandrel. 3,190,106, 6-22-65, Cl. 72-466.
- Spathe, Heinz, and H. Gosse, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of oximino-ketones. 3,215,730, 11-2-65, Cl. 260-482.
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- Spatt, Milton E. Air conditioning apparatus for buses and other vehicles, especially to arrangement and support of high side of refrigerating system. 3,218,820, 11-23-65, Cl. 62-239.
- Spatt, Milton E. Air conditioning means for vehicles. 3,218,821, 11-23-65, Cl. 62-244.
- Spatz Corp.: *See*—
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- Spatz, Sydney M., and R. I. Steiner, to Allied Chemical Corp. Resinous compositions containing 4-alkoxy-5 halo-2-hydroxy benzophenones resistant to ultraviolet light. 3,192,179, 6-29-65, Cl. 260-45.95.
- Spatz, Walter B., to Spatz Corp. Mechanical marking instrument. 3,169,511, 2-16-65, Cl. 120-18.
- Spatz, Walter B. Dispensers for fluent masses. 3,220,614, 11-30-65, Cl. 222-252.
- Spaulding, Carl P.: *See*—
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- Spaulding, Carl P., to Datex Corp. Digital coding and translating system. 3,165,731, 1-12-65, Cl. 340-347.
- Spaulding, Carl P., and R. J. Bazard, to Datex Corp. Analog-to-digital converter. 3,196,428, 7-20-65, Cl. 340-347.
- Spaulding, David A., to Sylvania Electric Products Inc. Electronically tunable transistor interstage network. 3,209,274, 9-28-65, Cl. 330-21.
- Spaulding, David C., to The B. F. Goodrich Co. Self-curing synthetic polymer composition. 3,215,659, 11-2-65, Cl. 260-29.6.
- Spaulding Fibre Co., Inc.: *See*—
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- Spaulding, Harold E., to American Can Co. Tray dumper and washer. 3,223,097, 12-14-65, Cl. 134-46.
- Spaulding, Joseph H., and G. M. Rodmaker, to Whiteway Mfg. Co. Fluorescent lighting fixture. 3,183,346, 5-11-65, Cl. 240-25.
- Spaulding, Ronald R.: *See*—
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- Spaulding, Stuart M. Teaching laboratory. 3,217,428, 11-16-65, Cl. 35-35.
- Spaw, Melvin O. Trestle structure. 3,212,606, 10-19-65, Cl. 182-185.
- Speak, John, to Prince-Smith & Stells Ltd. Drafting apparatus for textile fibers. 3,205,540, 9-14-65, Cl. 19-287.
- Speak, John, to Prince-Smith & Stella Ltd. Apparatus for detecting and correcting irregularities of thickness of a textile silver. 3,206,803, 9-21-65, Cl. 19-241.
- Speaker, Harry B.: *See*—
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- Speaker, Richard L., to Speaker Sortation Systems, Inc. Multiple station feeding means. 3,193,080, 7-6-65, Cl. 198-31.
- Speaker Sortation Systems, Inc.: *See*—
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- Speakman, Raymond H., to Imperial Chemical Industries Ltd. Apparatus for winding filamentary material into smooth ended packages. 3,171,608, 3-2-65, Cl. 242-43.
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Powell, Daryl E., and Spear. 3,220,593.
- Spear, Burton W., and E. M. Tom, to Owens-Illinois Glass Co. Controlling implosions in cathode-ray and other tubes. 3,164,672, 1-5-65, Cl. 178-7.82.
- Spear, Herbert W., to C. A. Crete. Rotary lawn mower, blade and sharpener. 3,223,627, 12-28-65, Cl. 56-25.4.
- Spear, James J.: *See*—
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- Spear, Reginald G. Panoramic picture camera. 3,214,232, 10-26-65, Cl. 352-69.
- Spears, Alexander W., W. E. Routh, C. W. Lassiter, and J. H. Bell, to P. Lorillard Co. Cigarette filters containing selective adsorbents. 3,217,719, 11-16-65, Cl. 131-208.
- Spears, Edward, to Schwitzer Corp. Reversible fan assembly. 3,174,553, 3-23-65, Cl. 170-160.59.
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- Spears, Willard B. Vending machine. 3,185,279, 5-25-65, Cl. 194-1.
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- Speas, Charles A.: *See*—
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- Speas, Clarence J., to Oak Ridge Atom Industries, Inc. Method of treating grass seed. 3,197,640, 7-27-65, Cl. 250-106.
- Specia, Elio J., to The Air Preheater Co., Inc. Self cleaning heat transfer surface. 3,216,485, 11-9-65, Cl. 165-5.
- Specht, Charles A., to Minerals & Chemicals Philipp Corp. Treatment of exhaust gases. 3,188,167, 6-8-65, Cl. 23-2.
- Specht, Glenn E., to Powhatan Brass & Iron Works. Adjustable stop means. 3,166,293, 1-19-65, Cl. 251-285.
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- Specht, Ralph B., and P. T. Calabretta, to American Machine & Foundry Co. Manipulator. 3,212,651, 10-19-65, Cl. 214-1.
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- Speer, John R., to Rockwell Mfg. Co. Saber saws. 3,205,721, 9-14-65, Cl. 74-50.
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- Speicher, Paul L., to The Cyclone Seeder Co., Inc. Spreader with self-locking spring. 3,175,739, 3-30-65, Cl. 222-342.
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- Speichermann, Paul O., and E. Mosinski, to G. M. Pfaff, A.G. Thread cutting device for double stitch sewing machines. 3,211,117, 10-12-65, Cl. 112-252.
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- Speler, John L., to Dow Corning Corp. Nitrogen-containing spiranes and siloxanes and their preparation. 3,170,941, 2-23-65, Cl. 260-448.2.
- Speight, Paul L., to E. R. Wagner Mfg. Co. Apparatus for applying detergent to rugs and the like. 3,173,165, 3-16-65, Cl. 15-533.
- Speight, Paul L., and V. R. Fransworth, to E. R. Wagner Mfg. Co. Childproof latch. 3,206,238, 9-14-65, Cl. 292-195.
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- Spellnes, Kore K., to Automatic Electric Laboratories, Inc. Communication switching system. 3,170,041, 2-16-65, Cl. 179-18.
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- Spenadel, Lawrence, H. Bieber, and D. M. Coddington, to Esso Research and Engineering Co. Light weight butyl rubber-polyethylene closed-cell sponge. 3,207,711, 9-21-65, Cl. 260-2.5.
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- Spence, Gerald M., to Monolith Portland Cement Co. Material ring removal from a rotary kiln. 3,220,714, 11-30-65, Cl. 263-33.
- Spence, Henry U. Stern steering for hydraulic jet boat. 3,185,124, 5-25-65, Cl. 115-12.
- Spence, James H. Combination vehicle luggage carrier and sunshade, and mounting assembly therefor. 3,203,604, 8-31-65, Cl. 224-42.1.
- Spence, John H., R. B. Bergstrand, and W. Van Der Sluys, to Pullman Inc. Railway vehicle multi-deck superstructure. 3,204,580, 9-7-65, Cl. 105-368.
- Spence, John H., to Pullman Inc. Concentric cushioned stop construction. 3,209,708, 10-5-65, Cl. 105-454.
- Spence, Paulsen, deceased; L. B. Dexter and O. C. Paulsen, co-executors, to Spence Engineering Co., Inc. Acceleration control. 3,207,277, 9-21-65, Cl. 192-096.
- Spence, Paulsen, deceased (by L. B. Dexter and O. C. Paulsen, executors), to Spence Engineering Co., Inc. Automatic changeover system. 3,213,875, 10-26-65, Cl. 137-110.
- Spence, Paulsen, deceased; L. B. Dexter and O. C. Paulsen, executors, to Spencer Engineering Co., Inc. Desuperheater system. 3,219,323, 11-23-65, Cl. 261-16.
- Spence, Peter M. Separable fastener. 3,195,202, 7-20-65, Cl. 24-230.
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- Spencer, Francis T., to Pepperell Mfg. Co. Method of making a napped fabric. 3,176,643, 4-6-65, Cl. 112-268.
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- Spencer, Glenn S., to The Bendix Corp. Centrifugally released one-way clutch. 3,187,869, 6-8-65, Cl. 192-104.
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- Spencer, Millard C., to S. D. Warren Co. Release-coated carrier webs and method of using same. 3,224,898, 12-21-65, Cl. 117-76.
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- Spera, Frank T., to Philco Corp. Electrical component and method of assembly. 3,184,532, 5-18-65, Cl. 174-1.
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- Sperl, Ferdinand P., to Service Ideas, Inc. Relish tray or the like. 3,224,625, 12-21-65, Cl. 220-23.83.
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- Squire, Edward N., to E. I. du Pont de Nemours and Co. Elastomeric fluorocarbon terpolymers of vinylidene fluoride, hexafluoropropylene and a halogen free polar monomer. 3,194,796, 7-13-65, Cl. 260-80.5.
- Squire, Herbert D., to Admiral Corp. Rotary shelf mounting. 3,167,180, 1-26-65, Cl. 211-150.
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- Stabler, Jack F., L. C. Friedrich, and M. Meeks, to The Dow Chemical Co. Coagulation and washing of water-insoluble polymeric materials containing pendant carboxylic acid groups. 3,219,637, 11-23-65, Cl. 260-78.5.
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- Staiger, Eugene L., and P. F. Lyman, to Millers Falls Co. Method of forming cutting tools. 3,174,363, 3-23-65, Cl. 76-24.
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- Stein, Abraham. Screw melter. 3,203,046, 8-31-65, Cl. 18-12.
- Stein, Anthony C. Junior chair lift. 3,215,382, 11-2-65, Cl. 248-172.
- Stein, Arnold P., to ACF Industries, Inc. Tensiometer. 3,203,235, 8-31-65, Cl. 73-144.
- Stein Bros. Mfg. Co.: See—
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- Stein, Charles H., and W. R. Krause, to Keuffel & Esser Co. Scribing instruments. 3,197,871, 8-3-65, Cl. 33-18.
- Stein, Elmer A., to Coan Mfg. Co., Inc. Coin-operated vending machine. 3,180,517, 4-27-65, Cl. 221-5.
- Stein, Elmer L., to Eye-Beam Displays, Inc. Display assembly having a collapsible structural member. 3,176,419, 4-6-65, Cl. 40-123.
- Stein, Gary: See—
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- Stein, George A.: See—
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- Stein, Hall & Co., Inc.: See—
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- Stein, Irving, to Ampex Corp. Hall effect readout device. 3,202,770, 8-24-65, Cl. 179-100.2.
- Stein, John A., to North American Aviation, Inc. Brazing method and means. 3,175,549, 4-13-65, Cl. 219-9.5.
- Stein, John G., & Co. Ltd.: See—
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- Stein, Joseph A., to Bacharach Industrial Instrument Co. Filter gauge. 3,185,041, 5-25-65, Cl. 92-94.
- Stein, Joseph L., to General Refractories Co. Divided taper brick. 3,220,367, 11-30-65, Cl. 110-99.
- Stein, Larry, and S. J. Childress, to American Home Products Corp. Method for relieving depression and composition therefor. 3,218,232, 11-16-65, Cl. 167-65.
- Stein, Lawrence: See—
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- Stein, Sam S., and L. L. Cerny, to Sam Stein Associates Inc. Meat scoring machine. 3,222,713, 12-14-65, Cl. 17-26.
- Stein, Samuel, to United States of America, National Aeronautics and Space Administration. Injector-valve device. 3,170,286, 2-23-65, Cl. 60-35.6.
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- Stein, William. Dispensing containers for granular products having a resilient perforated plug and closure cap therefor. 3,197,092, 7-27-65, Cl. 222-345.
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- Steinacker, Peter, to Westfalia Separator AG. Centrifugal separator bowl with periodically operated sludge discharge means. 3,193,194, 7-8-65, Cl. 233-20.
- Steinbach, Hermann J. Pasture conditioner. 3,225,835, 12-28-65, Cl. 172-138.
- Steinbach, Karl, P. Wentzel, and K. Dinter, to Siemens & Halske A.G. Control system. 3,166,278, 1-19-65, Cl. 246-132.
- Steinbach, Karl, and P. Wentzel, to Siemens & Halske A.G. Brake system. 3,171,621, 3-2-65, Cl. 246-182.
- Steinbach, Karl-Helz, and R. Gass, to Farbenfabriken Bayer Aktiengesellschaft. Feeler-type integration for measuring rates of flow. 3,208,279, 9-28-65, Cl. 73-208.
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- Steinberg, Hyman A. Cover construction for heating compartment of solar oven. 3,174,476, 8-23-65, Cl. 126-270.
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- Steinemann, Willy, to Sandoz Ltd. Metal-containing reactive azo dyes. 3,202,650, 8-24-65, Cl. 260-146.
- Steinen, William F. Draft regulator. 3,206,119, 9-14-65, Cl. 236-45.
- Steiner, Adam P., to The Singer Co. Presser foot adjusting device. 3,204,593, 9-7-65, Cl. 112-240.
- Steiner, Alfred, to American Can Co. Filling machine. 3,176,729, 4-6-65, Cl. 141-275.
- Steiner, Alois. Stair-climbing vehicle. 3,195,910, 7-20-65, Cl. 280-5.22.
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- Steiner, Charles. Combination enclosure and stand for books and like articles. 3,195,850, 7-20-65, Cl. 248-454.
- Steiner, Erhard, to Siemens & Halske Aktiengesellschaft. Feedback transistor modulator for frequency division and frequency multiplication. 3,188,483, 6-8-65, Cl. 307-88.5.
- Steiner, Frazier F.: See—
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- Steiner, Fritz, to International Standard Electric Corp. Analogue indicating device. 3,207,121, 9-21-65, Cl. 116-18.
- Steiner, George, and J. H. De Maire, 50% to F. F., G. S., and N. L. Steiner. Flexible steering column. 3,165,942, 1-19-65, Cl. 74-493.
- Steiner, George M., to Burt Mfg. Co. Quick release ventilators. 3,202,079, 8-24-65, Cl. 98-42.
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- Steiner, Harry. Garment with uplift breast support. 3,173,421, 3-16-65, Cl. 128-485.
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- Steiner, Herbert M. E., and A. N. Roper, to The M. W. Kellogg Co. Process of pyrolyzing a para-xylyl halide. 3,213,041, 10-19-65, Cl. 260-2.
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- Steiner, Joseph M., to Westinghouse Electric Corp. Hermetically enclosed electronic device. 3,209,065, 9-28-65, Cl. 174-52.
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- Steiner, Max, and C. F. Jackson, to Owens-Corning Fiberglass Corp. Non-elastic extensible yarn. 3,166,884, 1-26-65, Cl. 57-140.
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- Steiner, Wilford L., to Goodyear Aerospace Corp. Automatic focus control system and method. 3,211,831, 10-12-65, Cl. 178-7.92.
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- Steingiser, Samuel, and I. O. Salver, to Monsanto Co. Stabilization of polyethylene for thermal processing with sulfides of dialkyl phenols. 3,170,893, 2-23-65, Cl. 260-45.95.
- Steingrover, Erich A., to Elektro-Physik Hans Nix & Dr. Ing. Steingrover. Adjustable permanent magnet. 3,164,756, 1-5-65, Cl. 317-159.
- Steingrover, Erich A., to Magnetfabrik Bonn Gewerkschaft Windhorst. Correction magnets for cathode-ray tubes and methods for magnetizing same. 3,205,414, 9-7-65, Cl. 317-200.
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- Steinhagen, William K., and E. W. Yott, to General Motors Corp. Method and apparatus for conditioning cars. 3,183,962, 5-18-65, Cl. 165-3.
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- Steinhardt, Howard L., and G. L. Krize, to H. L. Steinhardt. Instrument panel-mounted electrical jack or receptacle. 3,196,381, 7-20-65, Cl. 339-129.
- Steinhardt, Ralph G., Jr., to Hollins College Corp. Process and apparatus for maintaining constant low temperatures. 3,195,620, 7-20-65, Cl. 165-2.
- Steinhauer, Alfred E., and J. C. Valenta, to The Dow Chemical Co. Hypochlorite bleaching compositions. 3,172,861, 3-9-65, Cl. 252-187.
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- Steininger, Erwin, to Socony Mobil Oil Co., Inc. Tetrahydrofurans and a method for their preparation. 3,187,017, 6-1-65, Cl. 260-347.8.
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- Zurbrigen, James A., and Steinsberger. 3,168,909.
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- Steisslinger, Kurt, to Eastman Kodak Co. Photographic camera with automatic and/or manual exposure control. 3,173,350, 3-16-65, Cl. 95-64.
- Steisslinger, Kurt, to Eastman Kodak Co. Film speed setting device for cameras. 3,183,807, 5-18-65, Cl. 95-10.
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- Stel, Marinus, P. H. Fennema, W. F. Nienhuis, and C. J. W. Panis, to North American Phillips Co., Inc. Glass cathode ray tube for reproducing images. 3,166,211, 1-19-65, Cl. 220-2.1.
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- Stelmak, John P., to Westinghouse Electric Corp. Process for treating semiconductors. 3,206,340, 9-14-65, Cl. 148-183.
- Stelmak, John P., and J. D. Husher, to Westinghouse Electric Corp. Monolithic semiconductor oscillator. 3,165,708, 1-12-65, Cl. 331-108.
- Steinlecanu, Jacques D. Foldable ironing board. 3,199,472, 8-10-65, Cl. 108-119.
- Stelter, William M. Carburetion optimization structure. 3,168,085, 2-2-65, Cl. 123-141.
- Stelts, Philip D., to Air Products and Chemicals Inc. Low heat leak connector for cryogenic system. 3,215,313, 11-2-65, Cl. 222-131.
- Stelzen, Fred. Fish holder and scraper. 3,181,198, 5-4-65, Cl. 17-8.
- Stelzer, Carl, to Hauni-Werke Korber & Co., K.G. Method and device for producing multiple filter rods for filter tip cigarettes. Re. 25,917, 11-30-65, Cl. 93-1.
- Stelzer, Jakob, to H. T. Golde G.m.b.H. & Co., K.G. Power operated regulating mechanism. 3,174,742, 3-23-65, Cl. 268-124.
- Stelzer, James S., to Peter Eckrich & Sons, Inc. Packaging member. 3,215,333, 11-2-65, Cl. 229-51.
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- Stelzer, William, to Kelsey-Hayes Co. Vehicle brake mechanism. 3,164,415, 1-5-65, Cl. 303-6.
- Stelzer, William, to Kelsey-Hayes Co. Motor vehicle hydraulic brake system. 3,168,351, 2-2-65, Cl. 303-6.
- Stelzer, William, to Kelsey-Hayes Co. Tractor trailer brake system. 3,168,352, 2-2-65, Cl. 303-7.
- Stelzer, William, to Kelsey-Hayes Co. Anti-skid brake control. 3,172,505, 3-9-65, Cl. 188-181.
- Stelzer, William, to Kelsey-Hayes Co. Fluid pressure motor control system. 3,172,706, 3-9-65, Cl. 303-6.
- Stelzer, William, to Kelsey-Hayes Co. Pressure producing device for automotive braking systems. 3,174,285, 3-23-65, Cl. 60-54.6.
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- Stelzer, William, to Kelsey-Hayes Co. Automatic load control braking system for motor vehicles. 3,180,694, 4-27-65, Cl. 303-7.
- Stelzer, William, to Kelsey-Hayes Co. Vehicle brake device. 3,182,760, 5-11-65, Cl. 188-152.
- Stelzer, William, to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,183,789, 5-18-65, Cl. 91-369.
- Stelzer, William, to Kelsey-Hayes Co. Anti-skid brake control. 3,203,516, 8-31-65, Cl. 188-181.
- Stelzer, William, to Kelsey-Hayes Co. Pressure proportioning master cylinder. 3,210,941, 10-12-65, Cl. 60-54.5.
- Stelzer, William, to Kelsey-Hayes Co. Brake pressure proportioning device. 3,217,494, 11-16-65, Cl. 60-54.5.
- Stelzer, William, to Kelsey-Hayes Co. Brake pressure proportioning valve. 3,217,495, 11-16-65, Cl. 60-54.5.
- Stelzer, William, to Kelsey-Hayes Co. Compound pressure proportioning master cylinder. 3,220,188, 11-30-65, Cl. 60-54.5.
- Stelzer, William, to Kelsey-Hayes Co. Brake operating mechanism. 3,222,868, 12-14-65, Cl. 60-54.6.
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- Stemmler, Kurt, to Winkler & Dunnebler Maschinenfabrik und Eisengieserei. Bottom flap trimmer with adjustable fixed blade. 3,166,965, 1-26-65, Cl. 83-175.
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- Stene, Manfred, and C. H. Stumpfhaus, to H. K. Porter Co., Inc. Disconnecting switch. 3,174,004, 3-16-65, Cl. 200-48.
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- Stenger, Vernon A., and C. E. Van Hall, to The Dow Chemical Co. Automatically discharging condensate trap. 3,196,893, 7-27-65, Cl. 137-204.
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- Stephens, Herman Y. Multiple piston internal combustion engine with pump compression. 3,198,179, 8-3-65, Cl. 123-51.
- Stephens, Jaffrey G. Adjustable rotatable cylinder head support. 3,212,770, 10-19-65, Cl. 269-61.
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- Stephens, William T., to Borg-Warner Corp. Stacked valve assembly. 3,194,257, 7-13-65, Cl. 137-343.
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- Stephenson, Fred W., to Process Engineering Corp. Device for deheading shrimp. 3,209,393, 10-5-65, Cl. 17-2.
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- Steven, Ray L. Bathtub construction. 3,187,350, 6-8-65, Cl. 4-177.
- Stevenson, Pieter G., to North American Phillips Co., Inc. Memory matrix with insulating frame. 3,201,766, 8-17-65, Cl. 340-174.
- Stevens, Albert W., to Lilly Varnish Co. Method of finishing. 3,202,527, 8-24-65, Cl. 117-45.
- Stevens, Alexander M. Extruding dies. 3,221,371, 12-7-65, Cl. 18-14.
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- Stevens, Carille R. Coin vending apparatus. 3,176,696, 4-6-65, Cl. 133-5.
- Stevens, Carille R., and H. C. Moritz, to Royal Industries, Inc. Character read-out device. 3,200,396, 8-10-65, Cl. 340-378.
- Stevens, Charles R. Apparatus for repetitively unstacking blocks of sheet material. 3,174,633, 3-23-65, Cl. 214-8.5.
- Stevens, Clarence E., to The Filter Corp. Installed suction cleaner system. 3,166,393, 1-19-65, Cl. 55-358.
- Stevens, David B., and E. Shermeister. Pressure relief device for fuel pumps. 3,168,044, 2-2-65, Cl. 103-41.
- Stevens, Donald G., G. E. King, and A. F. Miller, to The Standard Oil Co. (Ohio) Removal of saturated carbonyls from acrylonitrile. 3,185,636, 5-25-65, Cl. 202-57.
- Stevens, Donald R., to Collins Radio Co. Shaft rotational velocity and direction indicating means utilizing a pulse producing and blocking commutator. 3,210,658, 10-5-65, Cl. 324-70.
- Stevens, Donald R., to Collins Radio Co. Radio frequency matrix switch with integral automatic stub disconnect. 3,215,954, 11-2-65, Cl. 333-7.
- Stevens, Eddie S., to D. Moretti. Apparatus and method for air to air heat exchange. 3,225,819, 12-28-65, Cl. 165-2.
- Stevens, Edgar L. Stamping and recording machine for fruit cartons. 3,177,802, 4-13-65, Cl. 101-44.
- Stevens, Edgar L. Carton stamping means. 3,195,452, 7-20-65, Cl. 101-42.
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- Stevens, Eric S., to Brunswick Corp. Shoe sanitizing device. 3,184,277, 5-18-65, Cl. 312-276.
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- Stevens, Frederick F., Jr. Two shot pocket pistol. 3,193,960, 7-13-65, Cl. 42-8.
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- Stevens, George R., and J. J. Stipo. Machine for automatically ejecting customers' cards when fuel delivery is due and for other purposes. 3,166,214, 1-19-65, Cl. 221-4.
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- Stevenson, Herbert A., J. R. Marshall, and A. F. Hams, to Boots Pure Drug Co. Ltd. Fungicidal sulphones and sulphoxides. 3,186,904, 6-1-65, Cl. 167-30.
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- Stevenson, John A. Time and temperature indicating apparatus. 3,177,718, 4-13-65, Cl. 73-344.
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- Steward, Alva T., Jr., and A. C. Nixon, to Shell Oil Co. Process for polymerizing unsaturated aldehydes and resulting products. 3,215,612, 11-2-65, Cl. 204-154.
- Steward, Anthony F. Rear view mirror. 3,168,277, 2-2-65, Cl. 248-226.
- Steward, Arthur H. Bit assembly and chip ejector means therefor. 3,180,379, 4-27-65, Cl. 145-117.
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- Steward, Clyde R., to Hewlett-Packard Co. Wheel for carrying electronic equipment. 3,224,381, 12-21-65, Cl. 105-150.
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- Stewart, Merrick W., and R. K. Smith, to United States of America. Army. Arming accelerometer. 3,192,412, 6-29-65, Cl. 307-121.
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- Stewart, Orald L., to Cleveland Metal Abrasive Co. Method of heat treating metal shot. 3,201,289, 8-17-65, Cl. 148-13.
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- Stewart, Robert F., B. T. Larsen, and J. D. McClendon, to North American Aviation, Inc. Composition, casting and process for producing a high-temperature resistant concrete. 3,188,368, 6-8-65, Cl. 264-56.
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- Stewart, Robert M., and E. P. Boynton, to Chemetron Corp. Continuous diffusion process. 3,203,833, 8-31-65, Cl. 127-45.
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- Stewart, Warner L., and D. G. Evans, to United States of America. National Aeronautics and Space Administration. Multistage multiple-reentry turbine. 3,164,369, 1-5-65, Cl. 253-66.
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- Stewart, Warren A., to Koppers Co., Inc. Mechanism for feeding cardboard or like blanks. 3,193,282, 7-6-65, Cl. 271-12.
- Stewart, Warren A., to Koppers Co., Inc. Manufacture of laminated board structures. 3,217,070, 11-9-65, Cl. 264-47.
- Stewart, Wayne R. Press wheel tire with crust fracture bars. 3,207,234, 9-21-65, Cl. 172-519.
- Stewart, William A. Method and apparatus for measuring flow. 3,199,348, 8-10-65, Cl. 73-194.
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- Steyermark, Paul R., to W. R. Grace & Co. Process for oxidizing trivalent P-NCO esters and anhydrides to corresponding pentavalent derivatives. 3,177,239, 4-6-65, Cl. 280-461.
- Steyermark, Paul R., to W. R. Grace & Co. Process for the preparation of diglycosylureas. 3,179,654, 4-20-65, Cl. 260-211.5.
- Steyermark, Paul R., to W. R. Grace & Co. Novel 1,3-bis(polyhydroxyalkyl)-2-imidazolidinones and 1,3-bis(polyhydroxyalkyl)-imidazolidine-2-thiones. 3,226,379, 12-28-65, Cl. 260-211.
- Stibitz, George R. Object retrieval system. 3,167,266, 1-26-65, Cl. 242-55.13.
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- Stickel, Josef, to Gebrüder Netzsch, Maschinenfabrik. Flexible coupling for screw pump rotors. 3,165,065, 1-12-65, Cl. 103-117.
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- Stickney, Carson S. Adjustable picture frame molding. 3,189,136, 6-15-65, Cl. 189-36.
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- Stieber, Ortwin, and H. Wutz, said Wutz assor. to said Stieber. Variable speed transmission. 3,188,875, 6-15-65, Cl. 74-192.
- Stiefel, Christian J., W. Blank, and H. König, to Waggonfabrik Talbot. Tilttable roof for street and rail vehicles. 3,169,492, 2-16-65, Cl. 105-377.
- Stiefel, Gottfried, to Stag Staubgut-Transport AG. Multi-material storage and transport tank. 3,172,556, 3-9-65, Cl. 220-22.
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- Stotler, Harold H., G. B. Farkas, and P. C. Keith, to Hydrocarbon Research, Inc. Baffled reactor. 3,226,204, 12-28-65, Cl. 23-284.
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- Stottlemeyer, Harold W. Fork lift for farm tractors. 3,169,651, 2-16-65, Cl. 214-140.
- Stotts, Shirley E. Shiftable block puzzle game. 3,208,753, 9-28-65, Cl. 272-132.
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- Stouls, Leon, to Commissariat a l'Energie Atomique. Methods for producing deuterium by distillation of hydrogen. 3,216,800, 11-9-65, Cl. 23-212.
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- Stout, Raymond K. Method of conveying articles and construction of checkout equipment. 3,196,984, 7-27-65, Cl. 186-1.
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- Stout, Virgil L., and J. R. Young, to General Electric Co. Hydrogen pumping method and apparatus. 3,214,359, 10-26-65, Cl. 204-154.
- Stout, William D., to General Motors Corp. Vehicle seat. 3,222,106, 12-7-65, Cl. 297-332.
- Stout, William H. Ambulatory irrigation system. 3,223,461, 12-14-65, Cl. 305-2.
- Stout, William J.: See—
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- Stovall, James E. Apparatus and method of conveying, storing and freezing food products. 3,170,852, 4-6-65, Cl. 211-126.
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- Stowell, Phillip A., to Burroughs Corp. Electrostatic record medium. 3,207,625, 9-21-65, Cl. 117-216.
- Stowell, Phillip A., to Burroughs Corp. Electrostatic printing apparatus. 3,220,303, 11-30-65, Cl. 88-24.
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- Strader, Don S., to The Frank G. Hough Co. Hydraulic steering systems. 3,202,238, 8-24-65, Cl. 180-79.2.
- Strader, Don S., to The Frank G. Hough Co. Control valve construction. 3,209,781, 10-5-65, Cl. 137-596.2.
- Strader, Don S., and R. G. Luft, to The Frank G. Hough Co. Implement position control mechanism. 3,187,913, 6-8-65, Cl. 214-140.
- Strader, Don S., and M. W. Hagen, to The Frank G. Hough Co. Bucket position control mechanism. 3,198,360, 8-3-65, Cl. 214-140.
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- Strahm, Allen D. Smoking pipe trap and filter chamber. 3,221,752, 12-7-65, Cl. 131-184.
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- Straley, James M., and R. C. Harris, to Eastman Kodak Co. Metallized monoazo dyes. 3,201,383, 8-17-65, Cl. 260-147.
- Straley, James M., and D. J. Wallace, to Eastman Kodak Co. 1-hydroxy-4-N-[p-(2'-pyrrolidonyl-1-phenyl)-amino anthraquinones. 3,201,415, 8-17-65, Cl. 260-326.5.
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- Strandskov, Frede B., and J. B. Bockelmann, to F. & M. Schaefer Brewing Co. Synthetic organic chemical preservative for beer. 3,175,912, 3-30-65, Cl. 99-48.
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- Strasser, Helmut, G. Schuchard, H. Topel, and O. Renner, to Agfa Aktiengesellschaft. Camera with built-in flash apparatus. 3,204,542, 9-7-65, Cl. 95-11.
- Strasser, Joseph P., to The Dow Chemical Co. Vehicle headliners. 3,212,811, 10-19-65, Cl. 296-137.
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- Strathearn, Donald M., and L. V. McCarty, to Controls Co. of America. On-stream mixer. 3,171,721, 3-2-65, Cl. 23-252.
- Strathmann, Arnfred R. Mouthpiece for saxophones and clarinets. 3,202,032, 8-24-65, Cl. 84-333.
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- Stratton, Charles A., to Phillips Petroleum Co. Drilling fluids having enhanced lubricating properties. 3,219,580, 11-23-65, Cl. 252-8.5.
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- Straub, Edwin, and E. Bosshard, to Sulzer Freres, S.A. Fuel element changing and transporting apparatus for nuclear reactors. 3,190,805, 6-22-65, Cl. 176-30.
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- Straub, Harold E., and E. F. Averill, to Titus Mfg. Corp. Air distribution devices. 3,185,069, 5-25-65, Cl. 98-40.
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- Straub, Hermann, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Electromagnetically operated multiple disc clutch or brake. 3,224,540, 12-21-65, Cl. 192-90.
- Straub, Hermann, and A. Blum. Electromagnetic clutches, particularly of the automatic adjustment type. 3,168,175, 2-2-65, Cl. 192-84.
- Straub, Hermann, and S. Krauss, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Electric motor brake. 3,176,173, 3-30-65, Cl. 310-59.
- Straub, Karl, to Robert Bosch G.m.b.H. Distributor for internal combustion engines with adjustable spring. 3,166,646, 1-19-65, Cl. 200-31.
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- Strauss, Burton: *See*—
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- Strauss, Eugen. Transfer sheet and sheet assembly. 3,169,880, 2-16-65, Cl. 117-36.3.
- Strauss, Howard J., to United States of America, Navy. Electronic time compression system. 3,183,505, 5-11-65, Cl. 343-17.1.
- Strauss, Howard J., to ESB-Reeves Corp. Method of making microporous plastic. 3,202,733, 8-24-65, Cl. 264-49.
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- Strauss, Lewis H., to Aircraft Armaments, Inc. Light modulator using improved Kerr cell. 3,168,611, 2-2-65, Cl. 88-61.
- Strauss, Richard K. Splice cases. 3,175,032, 3-23-65, Cl. 174-93.
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- Strausser, William H. Child's amusement device. 3,168,310, 2-2-65, Cl. 272-54.
- Strayer, Arthur C., deceased; by E. B. Strayer, executrix, to E. B. Strayer. Lock-seal night depository bag. 3,200,868, 8-17-65, Cl. 150-7.
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- Strecker, Charles E., deceased; by J. E. Strecker, executrix, to General Electric Co. Dimming circuit and apparatus for gaseous discharge lamps. 3,201,645, 8-17-65, Cl. 315-98.
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- Street, Dan S., to General Electric Co. Mobile radio with timing circuit for automatically energizing the transmitter upon receipt of a call. 3,210,665, 10-5-65, Cl. 325-55.
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- Taylor, Harry P. Razor blade having multiple cutting edges. 3,176,398, 4-6-65, Cl. 30-354.
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- Taylor, Howard S., and J. G. Powers, to Airguide Instrument Co. Pitot assembly. 3,217,535, 11-16-65, Cl. 73-182.
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- Taylor, Hugh P., and J. C. Davis, Jr., to United States of America, Air Force. Sum and difference frequency computers for amplitude modulators. 3,185,929, 5-25-65, Cl. 328-133.
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- Taylor, James A., to The American Agricultural Chemical Co. Method of producing phosphorus pentasulfide. 3,183,062, 5-11-65, Cl. 23-206.
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- Taylor, Joseph C., to Westinghouse Electric Corp. Thermo-electric chamber. 3,169,378, 2-16-65, Cl. 62-3.
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- Thomas, Robert J., to Shell Oil Co. Controlled wetting of non-aqueous fluids. 3,224,845, 12-21-65, Cl. 23-312.
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- Thomas, Tom. Valve control. 3,221,425, 12-7-65, Cl. 37-143.
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- Thomas, Walter W., to Hercules Powder Co. Process for dyeing polypropylene fibers with azoic dyes. 3,164,438, 1-5-65, Cl. 8-46.
- Thomas, Wilford H., and S. E. Cook, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,197,492, 7-27-65, Cl. 260-437.
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 Thompson, Richard G., R. D. Tyler, and T. W. Techler, to Union Tank Car Co. Liquid solution feeding device. 3,202,164, 8-24-65, Cl. 137-101.11.
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- Thore, Thomas J., to The Singer Co. Oil retainer. 3,174,304, 3-23-65, Cl. 66-8.
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- Thorne, Derek, to Radio Corp. of America. Method of fabricating semiconductor devices. 3,224,069, 12-21-65, Cl. 29-25.3.
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- Thornton, King N. Massage couch. 3,207,152, 9-21-65, Cl. 128-33.
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- Thornton, Stuart R. Rat guard. 3,194,203, 7-13-65, Cl. 114-221.
- Thornton, Stuart R. Flashlight holder. 3,222,514, 12-7-65, Cl. 240-52.5.
- Thornton-Trump, Walter E., to Trump Engineers Ltd. Hydraulic wheel. 3,179,016, 4-20-65, Cl. 91-205.
- Thornton, William A., Jr., to Westinghouse Electric Corp. Electroluminescent combination. 3,173,057, 3-9-65, Cl. 315-244.
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- Thorsen, Matthew T., and L. J. Laufer, to Fairbanks Morse Inc. Card operated batcher. 3,173,504, 3-16-65, Cl. 177-70.
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- Thuesen, Niel C. Valve-reciprocating cage with guide means therefor. 3,185,139, 5-25-65, Cl. 123-90.
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- Thumim, Carl, to Miehle-Goss-Dexter, Inc. Movable front side gauge for paper cutting machines. 3,166,308, 1-19-65, Cl. 269-303.
- Thumim, Carl, to Miehle-Goss-Dexter, Inc. Magnetic tape control systems for guillotine type cutting machine. 3,174,370, 3-23-65, Cl. 83-71.
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- Thumim, Carl, to Miehle-Goss-Dexter, Inc. Knife changing controls for paper cutting machines. 3,203,294, 8-31-65, Cl. 83-399.
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- Thun, Rudolf E., and E. S. Wajda, to International Business Machines Corp. Method of forming a thin film grid. 3,202,543, 8-24-65, Cl. 117-210.
- Thunander, Hans T., to Westinghouse Electric Corp. Oven thermostat. 3,210,002, 10-5-65, Cl. 236-15.
- Thunberg, Sigurd F., and H. G. Groschopp, to Electrolux, Aktiebolaget. Structure for by-passing radio energy to the housing of electrical apparatus. 3,221,223, 11-30-65, Cl. 317-242.
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- Thuresson af Ekenstam, Bo, B. H. F. von Fleandt, and A. R. B. Furendal, to Bofors, Aktiebolaget. Dentifrice compositions comprising polymethyl methacrylate abrasives. 3,226,297, 12-28-65, Cl. 167-93.
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- Thurlow, Lloyd. Sprocket and chain drive. 3,194,609, 7-13-65, Cl. 305-57.
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- Thurrow, Herbert J. Apparatus for blocking and thinning of row crop farm produce. 3,169,583, 2-16-65, Cl. 172-111.
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- Thurrow, James E. Variable focal length lens system having linear differential motion between lens unit. 3,220,307, 11-30-65, Cl. 88-57.
- Thurston, James R., and R. P. King, to Thiokol Chemical Corp. Rocket motor ignition system. 3,217,489, 11-16-65, Cl. 60-35.6.
- Thurston, Kurt W. Warning light. 3,180,979, 4-27-65, Cl. 240-10.6.
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- Thurston, Sidney, to Douglas Aircraft Co., Inc. Drag reducing means. 3,196,823, 7-27-65, Cl. 114-67.
- Thuse, Erik: *See*—
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- Tiemann, Jerome J., to General Electric Co. Method of mounting and aligning transducers on delay lines. 3,187,412, 6-8-65, Cl. 29-155.5.
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- Troeger, Henry, to The Bendix Corp. Flexural pivot. 3,181,918, 5-4-65, Cl. 308-2.
- Troeger, Herbert, to Siemens-Schuckertwerke Aktiengesellschaft. Electric protection system for nuclear reactors. 3,223,590, 12-14-65, Cl. 176-24.
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- Trombley, Gerald P. Snow vehicle having demountable crawler treads. 3,183,987, 5-18-65, Cl. 180-624.
- Trombley, Gerald P. Trash burner cover. 3,204,806, 9-7-65, Cl. 220-24.
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- Trott, Timothy, to Aeroflex Laboratories Inc. High resolution optical film-scanning apparatus. 3,210,468, 10-5-65, Cl. 178-7.
- Trott, Winfield J., and W. E. Radford, to United States of America, Navy. Piezoelectric assembly. 3,179,826, 4-20-65, Cl. 310-8.2.
- Trotta, Anthony J., and D. A. Sudrabin, to Bethlehem Steel Corp. Roller plate grab. 3,197,250, 7-27-65, Cl. 294-102.
- Trotter, George H., 1/2 to D. M. Brown, T. W. O'Hearn, and D. M. Brown, Jr. Rotary internal combustion engine. 3,220,388, 11-30-65, Cl. 123-15.
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- Trotter, Walter, and P. P. Parris, to Camloc Fastener Corp. Landing area mat handling tool. 3,207,547, 9-21-65, Cl. 284-41.
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- Troup, John G., and T. L. Joyce. Transmission polarizer. 3,168,985, 2-9-65, Cl. 240-9.5.
- Trout, Donald M. Self-locking automatically-releasing sash balance for removable sash windows. 3,197,819, 8-3-65, Cl. 20-52.2.
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- Trudeau, Edgar G., to General Motors Corp. Door latch actuator. 3,201,165, 8-17-65, Cl. 292-336.3.
- True, Richard P., and J. E. North, Jr., to Special Fabrics, Inc. Bookbinders cover material. 3,174,773, 3-23-65, Cl. 281-29.
- True, Thomas T.: *See*—
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- True, Thomas T., to General Electric Co. Sawtooth waveform generator. 3,219,846, 11-23-65, Cl. 307-106.

- Trueb, Robert E., and A. M. Walkow, to Texas Instruments Inc. Container closure device. 3,211,827, 10-12-65, Cl. 174-52.
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- Trueblood, Inc.: *See*—
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- Truesdell, Robert E. Finishing beading or molding. 3,172,800, 3-9-65, Cl. 161-100.
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- Trujillo, Oscar A. Sewing machine work holder. 3,168,065, 2-2-65, Cl. 112-105.
- Trujillo, Ramon D., 1/2 to Richard W. Robertson. Drapery hook dispenser and inserter. 3,209,947, 10-5-65, Cl. 221-197.
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- Trumbull, Donald E., to Pyles Industries, Inc. Apparatus for mixing and dispensing multi-component material. 3,188,057, 6-8-65, Cl. 259-37.
- Trumbull, Donald E., and C. B. Penn, to Pyles Industries, Inc. Cartridge type plural component mixing and dispensing device. 3,188,056, 6-8-65, Cl. 259-37.
- Trumbull, Donald E., and A. D. Powers, Jr., to Pyles Industries, Inc. Metering pump assembly. 3,207,378, 9-21-65, Cl. 222-134.
- Trumbull, Donald E., and C. L. Schultz, to Pyles Industries, Inc. Quantum metering, mixing and dispensing apparatus. 3,212,676, 10-19-65, Cl. 222-71.
- Trumbull, Earl F., to R. F. W. Herzberger. Clip strap. 3,194,524, 7-13-65, Cl. 248-74.
- Trumbull, Harold E., H. E. Hull, and H. C. Davis, to Xerox Corp. Xerographic fusing apparatus. 3,219,799, 11-23-65, Cl. 219-388.
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- Trump, Frederick O., to Tecnifax Corp. High resolution reproduction apparatus. 3,217,625, 11-16-65, Cl. 95-77.5.
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- Trump, Robert G., to AMP Inc. Pinboard assembly. 3,175,179, 3-23-65, Cl. 339-18.
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- Trythall, William J. C. Material handling systems. 3,195,960, 7-20-65, Cl. 302-53.
- Trythall, William J. C. Method of inserting valves in pipelines. 3,216,094, 11-9-65, Cl. 29-157.1.
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- Trzebinski, Marian. Windscreen wipers of motor vehicles. 3,224,026, 12-21-65, Cl. 15-250.19.
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- Turgeon, Joseph A., to I-T-E Circuit Breaker Co. Sealed hinge for electrical switch. 3,200,229, 8-10-65, Cl. 200-170.
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- Turner, Lance H. Garbage can hand truck. 3,191,960, 6-29-65, Cl. 280-47.19.
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- Van Geen, John, to R S Electronics Corp. Apparatus for gathering an accumulation of various objects. 3,221,903, 12-7-65, Cl. 214-17.
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- Van Hook, John O., to Rohm & Haas Co. Resinous compositions plasticized with N,N-disubstituted arylamides. 3,210,314, 10-5-65, Cl. 260-30.4.
- Van Horn, Maurice J., Jr. Holder on upright support of detachable rotatable trays. 3,194,403, 7-13-65, Cl. 211-78.
- Van Horn, Morse F. Underground storage of liquefied gases. 3,205,665, 9-14-65, Cl. 61-5.
- Van Horn, Paul E.: See—
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- Van Iperen, Dirk C., to North American Phillips Co., Inc. Device for use in electric welding of the edges of the longitudinal seam in a metal tube. 3,209,115, 9-28-65, Cl. 219-59.
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- Vanivick, Isak. Snowplow. 3,213,552, 10-26-65, Cl. 37-43.
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- Van Kessel, Theodorus J., to North American Phillips Co., Inc. Arrangements for avoiding high-frequency stray oscillations in active two-terminal elements. 3,168,713, 2-2-65, Cl. 331-105.
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- Van Laar, John, to Werner Machinery Co. Hose drying apparatus. 3,209,466, 10-5-65, Cl. 34-104.
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- Van Oiphen, George C. W. Apparatus for freeze concentration. 3,188,825, 6-15-65, Cl. 62-123.
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- Van Oort, Johannes F., to North American Phillips Co., Inc. Means for maintaining spacing of a magnetic transducer from a rotary magnetic drum. 3,180,943, 4-27-65, Cl. 179-100.2.
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- Vidal, Frederick D., and V. G. Saril, to Wallace & Tiernan Inc. Oxidation of aliphatic hydrozo compounds to the corresponding aliphatic aze compounds. 3,192,196, 6-29-65, Cl. 260-192.
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- Vidal, Paul I., to Rocma Anstalt. Continuous moulding apparatus. 3,214,793, 11-2-65, Cl. 18-4.
- Vidar Corp.: See—
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Bahra, George S., Martin, and McWhorter. 3,205,448.
- Videen, Otis R., to Wood Conversion Co. Method of forming a fiberboard containing a fire-retardant hydrated borate and product thereof. 3,202,570, 8-24-65, Cl. 162-159.
- Videx Color Corp.: See—
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- Vido, George. Tablet dispenser. 3,168,215, 2-2-65, Cl. 221-264.
- Viebrock, Carl H. Grain saving attachment for combine. 3,202,154, 8-24-65, Cl. 130-27.
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- Viehmann, George A., to Construction Specialties, Inc. Adjustable ventilating louver. 3,202,082, 8-24-65, Cl. 98-88.
- Viehweg, Heinz: See—
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- Vieillard, Georges M. P., to Machines Automatiques Modernes (Societe a Responsabilite Limitee). Manual and record operated accounting machine. 3,200,239, 8-10-65, Cl. 235-61.9.
- Vielle, Lester M. Car top receptacle. 3,190,515, 6-22-65, Cl. 224-42.1.
- Vielstich, Wolf E., to The Electric Storage Battery Co. Alkaline accumulator. 3,202,544, 8-24-65, Cl. 136-6.
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- Vienna Sausage Mfg. Co.: See—
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- Viersma, Taco J., and H. Gunther, to North American Phillips Co., Inc. Hydraulic servo-mechanism. 3,200,713, 8-17-65, Cl. 91-49.
- Viescas, Arthur B.: See—
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- Viesmann, Hans. Mixer valve. 3,194,270, 7-13-65, Cl. 137-625.43.
- Viesmann, Hans. Change-over and mixing device. 3,194,271, 7-13-65, Cl. 137-625.43.
- Viesmann, Hans. Continuous flow heater. 3,207,130, 9-21-65, Cl. 122-32.
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- Villan, Paul R., and A. B. Hanse, to Pettibone Mulliken Corp. Rock crusher. 3,204,882, 9-7-65, Cl. 241-275.
- Vigehed, Rolf V. Safety device in load hooks. 3,213,508, 10-26-65, Cl. 24-241.
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- Vigren, Sten D., R. A. Zander, and P. H. E. Claesson. Contact spring assembly for relays and the like. 3,211,873, 10-12-65, Cl. 200-166.
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- Viktrosson, Carl A., to Electrolux, Aktiebolaget. Storage system. 3,188,977, 6-15-65, Cl. 104-235.

- Vilain, Henri. Device for a combined steeping and germinating multi-process. 3,188,280, 6-8-65, Cl. 195-130.
- Vilbajo, Jean, to A.V.R. Achat, Ventes, Representation, Societe Anonyme. Special cartridge for firing projectiles fitted end-on on firearms. 3,174,429, 3-23-65, Cl. 102-39.
- Vilbajo, Jean, to U.M.A.L. Societe Anonyme. Piezo-electric firing mechanism. 3,202,100, 8-24-65, Cl. 102-70.2.
- Vilcins, Ilmar J.: See—
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- Vilensky, Michel B., to Ampex Corp. Ferrite coating. 3,188,400, 6-8-65, Cl. 179-100.2.
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- Villalobos, Humberto F.-M. Method of making diamond knives. 3,190,047, 6-22-65, Cl. 51-283.
- Villalobos, Richard, to Beckman Instruments, Inc. Chromatographic method. 3,201,922, 8-24-65, Cl. 55-67.
- Villalobos, Richard, to Beckman Instruments, Inc. Gas chromatograph. 3,201,971, 8-24-65, Cl. 73-23.1.
- Villalon, Roberto P. System for simultaneously perforating and re-enforcing the hole so made in sheet material for filing purposes. 3,226,283, 12-28-65, Cl. 156-522.
- Villandry, Richard P., to J. and M. D'Augusta. Strut foundation for building. 3,195,189, 7-20-65, Cl. 20-1.
- Villani, Frank J., to Schering Corp. Novel compounds for lowering blood cholesterol levels. 3,188,315, 6-8-65, Cl. 260-297.
- Villani, Frank J., to Schering Corp. 5-(4-dimethylamino-cyclohexyl)-dibenzo[a,d]cyclohepta[1,4]-diene and salts thereof. 3,188,347, 6-8-65, Cl. 260-570.5.
- Villani, Frank J., to Schering Corp. Anti-depressant compositions and methods. 3,223,586, 12-14-65, Cl. 167-65.
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- Villiers Engineering Co. Ltd.: See—
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- Villiers, Jacques, to International Standard Electric Corp. Rotating radio-beacon system for locating objects. 3,181,141, 4-27-65, Cl. 343-6.
- Villiers, Jacques, to International Standard Electric Corp. Air radio navigation control systems. 3,181,142, 4-27-65, Cl. 343-6.
- Villiers, Jacques, to International Standard Electric Corp. Omni-directional altimetric radar. 3,181,143, 4-27-65, Cl. 343-6.
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- Vinal, Albert W., to International Business Machines Corp. Magnetic devices. 3,183,493, 5-11-65, Cl. 340-174.
- Vinal, Albert W., to International Business Machines Corp. Electrical sampling switch. 3,193,807, 7-6-65, Cl. 340-174.
- Vinal, Albert W., to International Business Machines Corp. Magnetic memory instrumentation. 3,212,068, 10-12-65, Cl. 340-174.
- Vinal, Albert W., to International Business Machines Corp. Differential quantized storage and compression. 3,225,333, 12-21-65, Cl. 340-172.5.
- Vincens, René, to Societe Civile de Recherches et d'Etudes Industrielles. Demountable door hinge. 3,166,367, 1-19-65, Cl. 312-329.
- Vincens, René, to Societe Civile de Recherches et d'Etudes Industrielles. Take-down rack-type metal shelves. 3,205,840, 9-14-65, Cl. 108-107.
- Vincens, René, to Societe Civile de Recherches et d'Etudes Industrielles. Metal cabinet front panel and handle construction. 3,206,270, 9-14-65, Cl. 312-320.
- Vincens, René, to Societe Civile de Recherches et d'Etudes Industrielles. Detachable furniture leg assembly comprising telescopic channel members. 3,210,035, 10-5-65, Cl. 248-188.8.
- Vincent, Arthur H. Combination lawn mower and snow remover. 3,208,167, 9-28-65, Cl. 37-43.
- Vincent, Charles H., to United Kingdom Atomic Energy Authority. Apparatus for the detection of excursions in a reactor. 3,219,939, 11-23-65, Cl. 328-140.
- Vincent, Clarence K. Bowling game apparatus and ball resetting and returning mechanism for the same. 3,224,766, 12-21-65, Cl. 273-41.
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- Vincent, Nathaniel R., to Douglas Aircraft Co., Inc. Electrical component mounting pad for printed circuit boards. 3,184,536, 5-18-65, Cl. 174-138.
- Vincent, Renic P., to Pan American Petroleum Corp. Metallic casing liner. 3,179,168, 4-20-65, Cl. 166-14.
- Vincent, Renic P., to Pan American Petroleum Corp. Fluid-driven percussion tool. 3,180,434, 4-27-65, Cl. 173-73.
- Vincent, Renic P., to Pan American Petroleum Corp. Method of setting metallic liners in wells. 3,191,680, 6-29-65, Cl. 166-46.
- Vincent, Renic P., to Pan American Petroleum Corp. Corrugated tube for lining wells. 3,203,451, 8-31-65, Cl. 138-143.
- Vincent, Renic P., to Pan American Petroleum Corp. Apparatus for forming metallic casing liner. 3,203,483, 8-31-65, Cl. 166-207.
- Vincent, Renic P., and J. C. Stall, to Pan American Petroleum Corp. Device for recording the inside diameter of a tubular object. 3,216,122, 11-9-65, Cl. 33-178.
- Vincent, Robert E., and W. R. Keeler, to Shell Oil Co. Hydrogen peroxide vaporization. 3,205,934, 9-14-65, Cl. 159-47.
- Vincent, Russell S., to The Plessey Co. Ltd. Electrolytic treatment of aluminum for increasing the effective surface. 3,193,485, 7-6-65, Cl. 204-141.
- Vince, Bela T., to General Instrument Corp. Electronic component printer having rotating magnetic chuck. 3,164,061, 1-5-65, Cl. 101-38.
- Vindevoel, Andre, to Compagnie Electro-Mechanique. Dynamoelectric machine having lamellar windings and plane axial air gap. 3,167,675, 1-26-65, Cl. 310-239.
- Vineall, Edwin G., to General Signal Corp. Protective system for highway crossings. 3,176,126, 3-30-65, Cl. 246-125.
- Vineberg, Joseph H. Packaging box. 3,170,617, 2-23-65, Cl. 229-23.
- Vineberg, Joseph H. Bag handle structure. 3,190,538, 6-22-65, Cl. 229-54.
- Vineberg, Joseph H. Shopping bag. 3,199,766, 8-10-65, Cl. 229-54.
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- Vinten, Charles. High-speed watercraft. 3,175,528, 3-30-65, Cl. 114-66.5.
- Vinten, Charles, and I. J. Dunningham, to W. Vinten, Ltd. Camera shutter mechanisms. 3,179,029, 4-20-65, Cl. 95-57.
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- Vischer, Alfred, Jr., $\frac{2}{3}$ each to W. A., and P. Vischer, $\frac{1}{3}$ each to W. W. and E. K. Zitzewitz, $\frac{1}{3}$ each to G. J. and B. O. Zitzewitz, and $\frac{2}{3}$ to G. V. Bouton. Fluid operated switch actuator. 3,194,916, 7-13-65, Cl. 200-83.
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- Visser, Herbert. Spading machine. 3,170,522, 2-23-65, Cl. 172-91.
- Visser, Herbert, to Landbouwwerktuigen-en Machinefabriek H. Visser N.V. Apparatus for bruising green fodder. 3,176,738, 4-6-65, Cl. 146-107.
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- Mizell, Louis R., Tewksbury, and Vitello. 3,213,860.
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- Vitello, John P., to The Gillette Co. Suction operated hair curler. 3,213,862, 10-26-65, Cl. 132-38.
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- Vitt, George G., Jr., and I. B. Merles, to Hughes Aircraft Co. Electron beam uniform intensity control circuit. 3,191,090, 6-22-65, Cl. 315-22.
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- Vivier, Claude, to Richier Societe Anonyme. Hydraulic system notably for mixer truck. 3,225,543, 12-28-65, Cl. 60-53.
- Vivion, Lee E. Chemical applicator. 3,199,957, 8-10-65, Cl. 23-269.
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- Vosburg, Guy M., to Weber Marking Systems, Inc. Stencil pad hand stamp with ink bottle handle. 3,172,356, 3-9-65, Cl. 101-125.
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- Walker, Charles S., to General Electric Co. Firing pulse generating circuit for solid state controlled rectifiers. 3,213,351, 10-19-65, Cl. 321-18.
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- Walker, Jay P., and R. W. Coggins, to National Tank Co. Methods and means for low temperature separation. Re. 25,759, 4-6-65, Cl. 55-57.
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- Walker, Jay P., C. O. Glasgow, and K. B. Henderson, to National Tank Co. Oil and gas separators. 3,213,595, 10-26-65, Cl. 55-204.
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- Walker, Keith K. Luggage carrier. 3,202,332, 8-24-65, Cl. 224-42.03.
- Walker, Kenneth E., and T. Hutson, Jr., to Phillips Petroleum Co. Alkylation process and apparatus. 3,169,153, 2-9-65, Cl. 260-683.48.
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- Walker, Lloyd A.: *See*—
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- Walker, Lloyd A., to Monsanto Co. Process of promoting low hysteresis of rubber using arylenebismethylimides. 3,224,999, 12-21-65, Cl. 260-41.5.
- Walker, Lloyd A., to Monsanto Co. Iminomethylenebis-heterocycles. 3,225,045, 12-21-65, Cl. 260-250.
- Walker, Lloyd A., to Monsanto Co. 3,3-[p-phenylenebis-(iminomethylene)bis] (2-thiazolinethiones). 3,225,057, 12-21-65, Cl. 260-306.
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- Walker Mfg. Co.: *See*—Continued
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- Walker, Matthew P. Soil excavating apparatus. 3,216,589, 11-9-65, Cl. 212-68.
- Walker, Maurice D., and J. K. Sanders. Cleaning and sanitizing machine. 3,194,438, 7-13-65, Cl. 222-61.
- Walker, Mauro J., to Philco Corp. Electrical circuit components. 3,220,889, 11-30-65, Cl. 148-6.3.
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- Walker, Norman: *See*—
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- Walker, Norman C., and J. A. Nelson, to Dana Laboratories, Inc. Method of adjusting direct-current amplifier to achieve substantially zero temperature drift coefficient. 3,185,932, 5-25-65, Cl. 330-12.
- Walker, Odie. Tire valve assembly and air leak indicator for pneumatic tires which utilize inner tubes. 3,185,126, 5-25-65, Cl. 116-34.
- Walker, Philip F.: *See*—
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- Walker, Raymond W., to Shaffer Tool Works. Rotary safety joint. 3,204,992, 9-7-65, Cl. 285-330.
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- Walker, Richard M., and A. A. Blaisdell, to Microwave Associates, Inc. Microwave harmonic generator and filter element therefor. 3,196,339, 7-20-65, Cl. 321-69.
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- Walker, Robert G., and R. B. Taylor, to R. F. Brooks. Safety device. 3,189,967, 6-22-65, Cl. 24-265.
- Walker, Robert K. Auxiliary jaws for chuck tools. 3,223,428, 12-14-65, Cl. 279-36.
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- Walker, Robert O., to The Cincinnati Milling Machine Co. Drawbolt for machine tool spindles. 3,205,779, 9-14-65, Cl. 90-11.
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- Wallis, Marvin E. Mechanism for encasing articles. 3,178,866, 4-20-65, Cl. 53-140.
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- Wallshein, Melvin. Orthodontic bracket. 3,164,900, 1-12-65, Cl. 32-14.
- Wallshein, Melvin. Orthodontic torquing system. 3,164,901, 1-12-65, Cl. 32-14.
- Wallshein, Melvin. Adjustable orthodontic bands. 3,164,902, 1-12-65, Cl. 32-14.
- Wallshein, Melvin. Wire curving tools. 3,199,549, 8-10-65, Cl. 140-106.
- Wallshein, Melvin. Oral dispensing bands. 3,205,576, 9-14-65, Cl. 32-14.
- Wallshein, Melvin. Clamps. 3,210,818, 10-12-65, Cl. 24-125.
- Wallshein, Melvin. Tie wire tools for orthodontists and for general industrial use. 3,211,188, 10-12-65, Cl. 140-120.
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- Wally, Joseph H., Jr., and L. J. Grunwald, to Western Blue Print Co. Subject holder utilizing continuous groove and vacuum means for use with an overhead camera. 3,188,909, 6-15-65, Cl. 88-24.
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- Walraven, Diederik, and B. Veenemans, to North American Phillips Co., Inc. Semi-conductor electrode system having at least one aluminum-containing electrode. 3,188,535, 6-8-65, Cl. 317-234.
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- Walsh, Bruce R., to Gulf Research & Development Co. Aspirator for a carburetor. 3,223,394, 12-14-65, Cl. 261-78.
- Walsh, Bruce R., to Gulf Research & Development Co. Gas turbine fired with an aspirating burner nozzle. 3,224,195, 12-21-65, Cl. 60-39.74.
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- Warp, Harold, to Flex-O-Glass, Inc. Method of forming tear-off bag supply. 3,194,124, 7-13-65, Cl. 93-35.
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- Warren, Henry R., to Radio Corp. of America. Magnetic reading apparatus for demodulating a recorded frequency modulated signal. 3,218,618, 11-16-65, Cl. 340-174.1.
- Warren, Henry R., to Radio Corp. of America. Magnetic transducer. 3,225,145, 12-21-65, Cl. 179-100.2.
- Warren, Henry R. and R. P. Heavier-than-air aircraft. 3,224,711, 12-21-65, Cl. 244-23.
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Brown, Lloyd H., and Watson. 3,168,490.

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- Little, Rudolph. 3,209,346.
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- Wayne, Truman B. Apparatus for milling cereal grains. 3,217,769, 11-16-65, Cl. 146-279.
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- Weaver, Paul J., to S. G. Harwood. Connector for flexible tube to ported plate. 3,164,400, 1-5-65, Cl. 285-114.
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- Weber, Heinz H.: See—
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- Weber, Wilbert: See—
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- Weber, William C., to Dorr-Oliver Inc. Process for producing phosphoric acid. 3,181,931, 5-4-65, Cl. 23-165.
- Weber, William L.: See—
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- Weberling, Paul. Safety ski-binding. 3,189,362, 6-15-65, Cl. 280-11.35.
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- Webner, Albert. Screening grate. 3,208,594, 9-28-65, Cl. 209-379.
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- Webster, David R. Sheet forming method and apparatus. 3,201,305, 8-17-65, Cl. 162-203.
- Webster Electric Co.: See—
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- Webster, John L., to Reynolds Metals Co. Hollow wall constructions and parts therefor or the like. 3,214,889, 11-2-65, Cl. 52-579.
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- Webster, John W., to D. B. Frampton & Co. Composite wood panel. 3,172,170, 3-9-65, Cl. 20-91.
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- Webster, Owen W., to E. I. du Pont de Nemours and Co. Preparation of tetracyanoethylene by oxidation of tetracyanoethylenides with selected oxidizing agents. 3,174,993, 3-23-65, Cl. 260-465.8.
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- Wechter, William J., and J. C. Babcock, to The Upjohn Co. 1-methyl pregnanes. 3,216,996, 11-9-65, Cl. 260-239.55.
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- Weiland, Alfred. Side guard for a rotary disk lawn mower. 3,195,297, 7-20-65, Cl. 56-25.4.
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- Weiss, Franz. Suction stencilling apparatus. 3,172,358, 3-9-65, Cl. 101-126.
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- Weiss, Harry. Fluorescent lamp. 3,179,792, 4-20-65, Cl. 240-11.4.
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- Weiss, Hugh R., to The Pantasote Co. Multiple-compartment tray. 3,171,562, 3-2-65, Cl. 217-26.5.
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- Wells, Edward M., and J. H. Blythe, to The Marconi Co. Ltd. Radar locating system employing plural transmitted frequencies. 3,167,764, 1-26-65, Cl. 343-10.
- Wells, Edward R., to The Procter & Gamble Co. Winder for web material. 3,191,883, 6-29-65, Cl. 242-58.
- Wells, Emerald S. Bumper hoisting fixture. 3,220,565, 11-30-65, Cl. 214-1.
- Wells, Frank L., Co.: See—
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- Wells, Franklin B., to Trojan Powder Co. Blasting agent and explosive compositions containing a fine-grained organic sensitizer. 3,216,872, 11-9-65, Cl. 149-39.
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- Wells, George F., to Wells Mfg. Co. Lift mechanism for deep fat fryers. 3,225,681, 12-28-65, Cl. 99-336.
- Wells, George H., to Radio Corp. of America. Impedance matching source to line for pulse frequencies without attenuating zero frequency. 3,197,719, 7-27-65, Cl. 333-33.
- Wells, George W., to Bell Telephone Laboratories, Inc. Pulse distributor utilizing one bistable device per stage. 3,168,657, 2-2-65, Cl. 307-88.5.
- Wells, Herbert R. and M. M. Game apparatus with spinner device and selectively usable stop member. 3,211,458, 10-12-65, Cl. 273-134.
- Wells, Herbert R. and M. M. Baseball game. 3,224,772, 12-21-65, Cl. 273-93.
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- Wells, Lowell J., to Owens-Illinois Glass Co. Process for applying a suede finish to plastic sheeting. 3,221,086, 11-30-65, Cl. 264-90.
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- Waldherr, John F. 3,209,700.
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- Wells, Orville C., to Drive-In Theatre Mfg. Co., Inc. Patio light and speaker combination. 3,194,952, 7-13-65, Cl. 240-2.
- Wells, Peter, to The General Electric Co. Ltd. Electric gating circuits. 3,207,927, 9-21-65, Cl. 307-88.5.
- Wells, Ralph P. and J. M. Lawrence. Fishing rod sleeve ferrule. 3,170,721, 2-23-65, Cl. 287-126.
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- Wells, Richard D., to The William Carter Co. Diaper tabs for infant's shirts. 3,166,763, 1-26-65, Cl. 2-112.
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- Wells, Rogers A., to Pitney-Bowes, Inc. Folder-insertor. 3,193,983, 7-13-65, Cl. 53-117.
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- Wells, W. W. Ltd.: See—
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- Welsh, Herbert F., to Sperry Rand Corp. Immersed spark gap printer. 3,177,800, 4-13-65, Cl. 101-1.
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- Welsh, Herbert F., to Sperry Rand Corp. Tape handling machine. 3,189,291, 6-15-65, Cl. 242-55.12.
- Welsh, Herbert F., to Sperry Rand Corp. Power jet clocking. 3,199,781, 8-10-65, Cl. 235-201.
- Welsh, Herbert F., to Sperry Rand Corp. Magnetic drum recorder including a landing track. 3,200,385, 8-10-65, Cl. 340-174.1.
- Welsh, Herbert F., deceased; J. S. Chapline, executrix, to Sperry Rand Corp. Fluid shift register. 3,201,041, 8-17-65, Cl. 235-201.
- Welsh, Herbert F., E. D. Schreiner, L. R. Mock, and J. P. Eckert, Jr., to Sperry Rand Corp. Tape drive and recording apparatus. 3,189,290, 6-15-65, Cl. 242-55.12.
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- Welsh, William P., to Blumenthal Bros., Inc. Sliding door lock. 3,193,564, 8-3-65, Cl. 292-117.
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- Wendt, Gerhard R., and K. W. Ledig, to American Home Products Corp. 3-alkoxyestra-1,3,5(10)-trien-17-ol-(N-substituted aminoalkyl ethers). 3,180,864, 4-27-65, Cl. 260-239.5.
- Wendt, Gerhard R., and K. W. Ledig, to American Home Products Corp. 17-(3-substituted amino propyl)-17-hydroxyestra-3-one-steroids and process for preparing same. 3,184,486, 5-18-65, Cl. 260-397.4.
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- White, Howard T., to Crane Co. Motor driven pump. 3,220,350, 11-30-65, Cl. 103-87.
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- White, Richard E., and J. B. Marsden, to Ingersoll-Rand Co. Axial compressor. 3,166,238, 1-19-65, Cl. 230-143.
- White, Richard L. Solid-state controlled rectifier relay. 3,221,183, 11-30-65, Cl. 307-88.5.
- White, Richard M., to General Electric Co. Slow wave transmission line. 3,205,399, 9-7-65, Cl. 315-3.5.
- White, Robert C. Convertible top. 3,195,947, 7-20-65, Cl. 296-107.
- White, Robert C. Vibratory conveyor with inversion diverter. 3,207,293, 9-21-65, Cl. 198-220.

- White, Robert C. Vibratory conveyor with multiple track and turn-out. 3,216,431, 11-9-65, Cl. 134-132.
- White, Robert E.: See—
Clarke, Edgar W., and White. 3,218,253.
- White, Robert F., to Tele-Sessions, Inc. Communication network. 3,190,959, 6-22-65, Cl. 179-1.
- White, Robert F., to Shedd-Brown, Inc. Pencil and calendar clip. 3,195,253, 7-20-65, Cl. 40-119.
- White, Robert G., to Tektronix, Inc. Dual switch assembly including two switches operated independently by a common drive shaft. 3,207,861, 9-21-65, Cl. 200-14.
- White, Roby B., Jr., to Electronic Coil Processing Corp. Coin tester. 3,191,739, 6-29-65, Cl. 194-9.
- White, Roby B., Jr., to Electronic Coil Processing Corp. Coin sorter. 3,196,887, 7-27-65, Cl. 133-3.
- White-Rodgers Co.: See—
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- Bye, John E., and Gould. 3,187,130.
- Fleer, Thomas P. 3,166,248.
- Gundelfinger, William E. 3,184,570.
- Smith, Carl A. 3,167,252.
- Staring, Bernardus J. 3,174,528.
- Visos, Charles D., and Smith. 3,190,314.
- White, Roger F., to Thiokol Chemical Corp. Rocket motor thrust termination and reversal device. 3,177,655, 4-13-65, Cl. 60-35.6.
- White, Roy A., to Socony Mobil Oil Co., Inc. Process of rubber wherein atactic polypropylene is added. 3,210,301, 10-5-65, Cl. 260-4.
- White, Sheldon S., to Alloy Electronics Corp. Arc welding device. 3,210,515, 10-5-65, Cl. 219-74.
- White, Stanley B. Two cycle internal combustion engine. 3,187,730, 6-8-65, Cl. 123-71.
- White, Stuart M.: See—
Taterka, Michael, and White. 3,181,695.
- White, Theodore Z.: See—
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- White, Theodore Z., to Ford Motor Co. Cooling system for an internal combustion engine. 3,208,438, 9-28-65, Cl. 123-41.5.
- White, Thomas A. Drilling bit. 3,199,617, 8-10-65, Cl. 175-404.
- White, Veneta R. Method of manufacturing a toy animal. 3,174,253, 3-23-65, Cl. 46-156.
- White, Vernon L., and G. E. McAtee, to United States of America, Navy. Command communications voice console. 3,196,353, 7-20-65, Cl. 325-53.
- White, Warren D., and H. S. Sawyer, to Cutler-Hammer, Inc. Apparatus for measuring pulse interval of quasi-periodic pulse signals. 3,167,709, 1-26-65, Cl. 324-68.
- White, Wayne G., and R. A. Walther, to Union Carbide Corp. Copolymer of ethylene and vinyl alkyl ether. 3,226,374, 12-28-65, Cl. 260-88.1.
- White, Wayne W.: See—
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- White, Wilfred S., to Decca Ltd. Radio navigation systems. 3,189,903, 6-15-65, Cl. 343-105.
- White, Wilfred S., to Decca Ltd. Radio navigational systems. 3,206,752, 9-14-65, Cl. 343-105.
- White, Wilfrid G., to The Eastern Co. Anchor construction. 3,182,625, 5-11-65, Cl. 114-208.
- White, Wilfrid G. Sailing rig. 3,223,064, 12-14-65, Cl. 114-39.
- White, William D., D. M. Chia, and J. L. Jones, to United States of America, Navy. Monopropellants containing liquid fluorocarbons. 3,164,504, 1-5-65, Cl. 149-22.
- White, William J. Pogo stick. 3,181,862, 5-4-65, Cl. 272-57.
- White, William J., to International Research and Development Corp. Vertical dynamic balancing apparatus. 3,205,714, 9-14-65, Cl. 73-471.
- White, William L., to Collins & Alkman Corp. Tufted pile fabric and method of making same. 3,184,367, 5-18-65, Cl. 161-63.
- White, William P., to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,164,528, 1-5-65, Cl. 176-67.
- White, William P., and K. G. Eickhoff, to United Kingdom Atomic Energy Authority. Nuclear reactor control devices. 3,212,976, 10-19-65, Cl. 176-22.
- White, William S., to The Dow Chemical Co. Removal of calcium sulfate deposits. 3,170,851, 2-23-65, Cl. 134-27.
- White, William S., Jr., to Champion Chemicals, Inc. Automatic chemical injection system for wells. 3,171,485, 3-2-65, Cl. 166-64.
- White, William W.: See—
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- White, Wyman, to Ling-Temco-Vought, Inc. Method for optical comparison of skin friction-ridge patterns. 3,200,701, 8-17-65, Cl. 88-14.
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- Hallatt, Robert J., and Whitebook. 3,166,917.
- Whitecar, Alten E., to Smith, Kline & French Laboratories. Memory control apparatus for use in association with moving articles. 3,176,839, 4-6-65, Cl. 208-74.
- Whitecar, Alten E., to Smith Kline & French Laboratories. Master-slave plural motor synchronizing system. 3,184,668, 5-18-65, Cl. 318-75.
- Whitecar, Alten E., to Smith Kline & French Laboratories. Carton loading mechanism. 3,193,981, 7-13-65, Cl. 53-65.
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- Whited, Bernard M.: See—
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- Whited, Harry H. Tire changing mechanism. 3,221,795, 12-7-65, Cl. 157-1.2.
- Whited, Ralph E.: See—
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- Bridges, Roy G., Aleson, Hutchings, Whited, and Dyrness. 3,225,126.
- Whiteford, Carlton L., to Poly-Pak Corp. of America. Method of forming containers. 3,184,524, 5-18-65, Cl. 264-94.
- Whiteford, Carlton L., to Poly-Pak Corp. of America. Method of making a die cut edge of thermoplastic articles tear resistant. 3,186,576, 6-1-65, Cl. 220-24.
- Whiteford, Carlton L., to Poly-Pak Corp. of America. Packages. 3,204,760, 9-7-65, Cl. 206-46.
- Whiteford, Carlton L., to Poly-Pak Corp. of America. Carrier for bottles and the like. 3,218,233, 11-23-65, Cl. 220-102.
- Whiteford, Carlton L., to R. A. Jones & Co., Inc. Protective covers for cans, protective packages thereof and methods of forming and applying such covers. 3,224,575, 12-21-65, Cl. 206-65.
- Whiteford, Carlton L., to R. A. Jones & Co., Inc. Plastic carrier-package. 3,224,576, 12-21-65, Cl. 206-65.
- Whiteford, Grover C. Combination rocking and reclining chair. 3,226,155, 12-28-65, Cl. 297-85.
- Whitehead, Calvert W.: See—
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- Whitehead, Edwin C., to Technicon Instruments Corp. Method and apparatus for determining the concentration by weight of a substance in a fluid stream. 3,200,651, 8-17-65, Cl. 73-434.
- Whitehead, Harry G., to American District Telegraph Co. Protection signalling system having channel impedance alteration means for providing indications of remote station conditions. 3,214,734, 10-26-65, Cl. 340-163.
- Whitehead, Herbert A. Internal combustion engine cylinder heads. 3,176,666, 4-6-65, Cl. 123-41.82.
- Whitehead, Howard A.: See—
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- Whitehead & Kales Co.: See—
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- Whitehead, Richard H., to Scott & Williams, Inc. Gear construction. 3,225,616, 12-28-65, Cl. 74-449.
- Whitehorn, Richard M., to Varian Associates. Mounting device for circuit boards. 3,169,214, 2-9-65, Cl. 317-99.
- Whitehouse, George. Treadle scooter. 3,175,844, 3-30-65, Cl. 280-221.
- Whitehouse, Glenroy D., to English Steel Corp. Ltd. Automatic couplers for rail vehicles. 3,171,547, 3-2-65, Cl. 213-100.
- Whitehouse, John H., to North & Judd Mfg. Co. Steering drum. 3,188,882, 6-15-65, Cl. 74-506.
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- Whitehurst, Joe R., to Ideal Industries, Inc. Evener apparatus for feeding pliable materials. 3,203,051, 8-31-65, Cl. 19-239.
- Whitehurst, Joe R., to Ideal Industries, Inc. Fiber transfer controlling apparatus and method for main cylinder of a card. 3,225,391, 12-28-65, Cl. 19-98.
- Whitehurst, John C.: See—
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- Whiteley, Fred H.: See—
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- Whiteley, James A., to Ampex Corp. Reel holding device. 3,212,726, 10-19-65, Cl. 242-68.3.
- Whiteman, Jack. Liquid metering apparatus and control therefor. 3,190,117, 6-22-65, Cl. 73-223.
- Whitemore, Gerald, and D. E. Tyzack, to Electric & Musical Industries Ltd. Automatic control mechanism for machine tools. 3,176,120, 3-30-65, Cl. 235-151.
- Whitesell, William A., to Farrington Electronics Inc. Optical scanning apparatus for automatic character sensing devices and the like. 3,205,367, 9-7-65, Cl. 250-235.
- Whitesell, William A., and H. L. Cook, Jr., to Farrington Electronics Inc. Optical scanning system. 3,222,453, 12-7-65, Cl. 178-7.6.
- Whiteside, John D. Wire line cutter. 3,193,013, 7-6-65, Cl. 166-54.5.
- Whitesides, Jack C.: See—
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- Whitesides, Jack C., to Lilliston Implement Co. Rotary hoe gang assembly. 3,203,487, 8-31-65, Cl. 172-548.
- Whitesides, John S., to Phillips Petroleum Co. Insulation of structures. 3,212,861, 10-19-65, Cl. 23-288.
- Whiteway Mfg. Co.: See—
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- Whitfield, George B., Jr.: See—
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- Whitfield, Homer G., to Hydromation Engineering Co. Elevator. 3,200,935, 8-17-65, Cl. 198-171.
- Whitfield, Kenneth O. Self-lifting flatiron. 3,200,521, 8-17-65, Cl. 38-79.
- Whitfield, Kenneth O. Tire inflating device. 3,200,831, 8-17-65, Cl. 137-102.
- Whitfield, Marshall G. Thermally stabilized metal article and process of making it. 3,198,610, 8-3-65, Cl. 29-197.
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- Whiting, Harris M. Hinge stop. 3,178,762, 4-20-65, Cl. 16-191.
- Whiting, James C., T. Scooros, and J. H. Gerschick, to The Bendix Corp. Fluid filter and indicator therefor. 3,216,571, 11-9-65, Cl. 210-90.
- Whiting, Mark C., to Ethyl Corp. Arene group VIB metal tricarbonyls and process for preparing same. 3,225,071, 12-21-65, Cl. 260-397.2.
- Whiting, Raymond D., to Draper Corp. Timing gear mechanism for looms. 3,178,954, 4-20-65, Cl. 74-325.
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- Whitley, James H.: See—
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- Whitlow, Eugene P., to American Gas Assn. Heat and pressure sensitive valve. 3,170,631, 2-23-65, Cl. 236-92.
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- Whitney, Edgar H., to Osley & Whitney Inc. Internally heated cold manifold mold. 3,189,948, 6-22-65, Cl. 18-38.
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- Whitney, Lawrence H. Dual occupant velocipede for tug-of-war contests. 3,223,413, 12-14-65, Cl. 273-1.
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- Whitten, Frank L., and A. E. Hirsch, to United States of America, Navy. Shock isolation support. 3,179,868, 4-20-65, Cl. 248-401.
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- Whittle, Frank. Drill string valve. 3,205,955, 9-14-65, Cl. 175-235.
- Whittle, Frank, and J. F. Saunders, said Saunders assor, to said Whittle. Fluid pressure motive systems, for borehole drilling. 3,203,184, 8-31-65, Cl. 60-52.
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- Wiesler, Mordechai, and V. Martinonis, to Transistor Automation Corp. Sorting machine. 3,209,907, 10-5-65, Cl. 209-74.
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- Wilkie, Robert C., and J. R. Swanton, Jr., to Ludlow Corp. Paper yarn and methods and apparatus for making same. 3,164,069, 1-5-65, Cl. 93—84.
- Wilkie, Robert M., to Hupp Corp. Tube drying apparatus. 3,213,479, 10-26-65, Cl. 15—304.
- Wilkins, Charles A., to Ampex Corp. Push-pull power amplifier. 3,184,687, 5-18-65, Cl. 330—70.
- Wilkins, Douglas B., to Girling Ltd. Hydro-pneumatic suspension units for vehicles. 3,222,048, 12-7-65, Cl. 267—64.
- Wilkins, Edward W.: See—
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- Wilkins, James D.: See—
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- Wilkins, William B., to National Castings Co. Method and apparatus for making wound tubular articles of varying cross-section. 3,205,108, 9-7-65, Cl. 156—189.
- Wilkinson, Alvin H., to Auto Crane Co. Jackknife boom. 3,170,574, 2-23-65, Cl. 212—144.
- Wilkinson, Bernard H., to Rolls-Royce Ltd. Method and apparatus for the electrolytic removal of metal. 3,219,564, 11-23-65, Cl. 204—143.
- Wilkinson, Bernard H., to Rolls-Royce Ltd. Electrolytic hole forming apparatus. 3,219,568, 11-23-65, Cl. 204—224.
- Wilkinson, Bernard H., to Rolls-Royce Ltd. Electrolytic metal removal apparatus. 3,219,569, 11-23-65, Cl. 204—224.
- Wilkinson, Charles W., to Raytheon Co. Electronic radiation system. 3,178,679, 4-13-65, Cl. 340—3.
- Wilkinson Chutes, Inc.: See—
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- Wilkinson, Geoffrey, to Ethyl Corp. Polymeric molybdenum salts. 3,219,676, 11-23-65, Cl. 260—414.
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- Wilkinson, Gerald E. G., to Tennessee Corp. Process for producing hydrogen fluoride in a two-stage procedure and effecting evolution of the hydrogen fluoride in the second stage by the conjoint action of the addition of hot concentrated sulfuric acid and the application of vacuum. 3,218,126, 11-16-65, Cl. 23—153.
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- Wilkinson, Harlen E., to American Can Co. Container with a pry-open pouring spout. 3,169,678, 2-16-65, Cl. 222—478.
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- Wilkinson, James W., to Hastings Mfg. Co. Oil filter. 3,187,896, 6-8-65, Cl. 210—130.
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- Wilkinson, John R., to Sperry Rand Corp. Clocking of logic circuits. 3,171,972, 3-2-65, Cl. 307—88.5.
- Wilkinson, John S., to Surf Tow, Inc. Towing system for surfboards and the like. 3,181,861, 5-4-65, Cl. 272—32.
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- Wilkinson, Thurmond T., to Sinclair Research, Inc. Positive displacement fluid motor. 3,174,405, 3-23-65, Cl. 91—1.
- Wilkinson, Walter D., and L. R. Kelman, to United States of America, Atomic Energy Commission. Uranium gallium alloys and method of preparation. 3,193,380, 7-6-65, Cl. 75—84.1.
- Wilkinson, William H., to Oldham & Son Ltd. Electric accumulator cells. 3,207,634, 9-21-65, Cl. 136—135.
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- Willems, Jozef F., W. K. Koerber, and F. C. Heugebaert, to Gevaert Photo-Producten N.V. Light sensitive photographic color element. 3,178,286, 4-13-65, Cl. 96—74.
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- Willems, Jozef F., and M. N. Vrancken, to Gevaert Photo-Producten N.V. Composition of gelatin and hardening agent. 3,186,847, 6-1-65, Cl. 96—111.
- Willems, Jozef F., and M. N. Vrancken, to Gevaert Photo-Producten N.V. Photographic gelatin layer containing phosphonitrile dichlorides as hardening agents. 3,186,848, 6-1-65, Cl. 96—111.
- Willems, Jozef F., H. A. Pattijn, and G. M. Stevens, to Gevaert Photo-Producten N.V. Photographic material comprising a silver halide emulsion containing an anti-bronzing agent. 3,203,800, 8-31-65, Cl. 96—87.
- Willems, Jozef F., R. J. Thiers, and J. L. De Munck, to Gevaert Photo-Producten N.V. Silver halide emulsions sensitized with alkylene oxide polymers. 3,210,191, 10-5-65, Cl. 96—107.
- Willems, Jozef F., J. L. De Munck, and R. J. Thiers, to Gevaert Photo-Producten N.V. Photographic material incorporating a phosphoric acid ester of a polyoxyalkylene compound. 3,210,192, 10-5-65, Cl. 96—107.
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- Willitta, Elwood H. Anti-roll tandem axle torque-reactive vehicle suspension. 3,171,668, 3-2-65, Cl. 280—104.5.
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- Williams, Alfred L. W., and H. H. Hamlin, to Clevite Corp. Acoustic transducer. 3,215,977, 11-2-65, Cl. 340—10.
- Williams, Alfred L. W., and H. H. Hamlin, to Clevite Corp. Piezoelectrically powered X-ray tube. 3,217,164, 11-9-65, Cl. 250—102.
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- Williams, Alvie P., H. J. Jones, C. D. Frisby, and F. J. Niven, Jr., to Infratronics Corp. Integrator and recorder apparatus. 3,185,820, 5-25-65, Cl. 235—92.
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- Williams, Charles F. Fishing rod support. 3,186,666, 6-1-65, Cl. 248—44.
- Williams, Charles O., C. E. Miller, and J. S. Metcalf, to Olin Mathieson Chemical Corp. Plastic ammunition cartridge. 3,164,090, 1-5-65, Cl. 102—43.
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- Cole, Burrell C. 3,195,188.
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- Williams, Chester I. Anchor system for an invert form. 3,174,204, 3-23-65, Cl. 25—131.5.
- Williams, Chester I. Concrete form assembly and clamping means therefor. 3,186,679, 6-1-65, Cl. 249—192.
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- Williams, Chester I. Wrench coupling. 3,199,721, 8-10-65, Cl. 81—53.
- Williams, Chester I. Grout plug for rock bolts. 3,204,416, 9-7-65, Cl. 61—45.
- Williams, Chester I. Electric well heater. 3,207,220, 9-21-65, Cl. 166—60.
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- Williams, Chester I. Electric grid floor heating system. 3,223,825, 12-14-65, Cl. 219—213.
- Williams, Clarence O. Reel for pile fabrics with notched base. 3,189,172, 6-15-65, Cl. 206—51.
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- Williams, David C., to Ashland Oil & Refining Co. Nozzle connection lock device. 3,169,707, 2-16-65, Cl. 239—538.
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- Williams, Don A., Jr., to General Dynamics Corp. A.C.-D.C. converter. 3,196,335, 7-20-65, Cl. 321—2.
- Williams, Donald E., to The Cross Co. Transfer device for conveyor interchange. 3,213,999, 10-26-65, Cl. 198—24.
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- Williams, Donald W.: See—
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- Williams, Earl J., to Liquid Package Equipment Corp. Liquid measuring and dispensing apparatus. 3,201,002, 8-17-65, Cl. 222-205.
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- Williams, Fred G., Jr., to Beckman Instruments, Inc. Method for the determination of protein bound iodine. 3,168,377, 2-2-65, Cl. 23-230.
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- Williams, Frederick P. Sewage treatment structures. 3,202,285, 8-24-65, Cl. 210-195.
- Williams, Geoffrey E., to Lever Bros. Co. Filling cartons with plastic substances. 3,219,459, 11-23-65, Cl. 99-192.
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- Williams, Gladney R. Safety feature in pressurized containers. 3,168,210, 2-2-65, Cl. 220-89.
- Williams, Gladys M.: *See*—
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- Williams, Harold L., to Merrick Scale Mfg. Co. Integrating means. 3,198,429, 8-3-65, Cl. 235-61.
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- Williams, Harry D., to E. I. du Pont de Nemours and Co. Lead (IV) zeolites. 3,173,759, 3-16-65, Cl. 23-112.
- Williams, Harry D., to Radio Corp. of America. Wire marking apparatus. 3,195,499, 7-20-65, Cl. 118-7.
- Williams, Harry W. Ring welding fixture. 3,198,510, 8-3-65, Cl. 269-52.
- Williams, Harvey M. Conduit and outlet box locating unit. 3,163,909, 1-5-65, Cl. 25-118.
- Williams, Henry M., to Olin Mathieson Chemical Corp. Method of fabricating a connecting device. 3,170,235, 2-23-65, Cl. 29-534.
- Williams, Henry M., to Olin Mathieson Chemical Corp. Connecting device. 3,174,321, 3-23-65, Cl. 72-267.
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- Williams, Herald J., Jr., to Aqua-Lectric, Inc. Self-contained electrical radiator unit. 3,166,666, 1-19-65, Cl. 219-341.
- Williams, Herald J., Jr., to Aqua-Lectric, Inc. Electric heating control panel. 3,176,194, 3-30-65, Cl. 317-116.
- Williams, Herald J., Jr., to Aqua-Lectric, Inc. Electric baseboard radiator. 3,192,360, 6-29-65, Cl. 219-341.
- Williams, Herbert F. Gage drive. 3,176,406, 4-6-65, Cl. 33-170.
- Williams, Holland V., and D. T. Hindman, to Finger Keys, Inc. Control device. 3,201,961, 8-24-65, Cl. 70-277.
- Williams, Howard E.: *See*—
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- Williams, Hubert L.: *See*—
Cotterman, Frank D., and Williams. 3,173,650.
- Williams, Hubert L., to Crane Co. Trunnion seal for screw-type operator. 3,178,950, 4-20-65, Cl. 74-89.
- Williams, Ivan A., deceased, by E. M. Williams, executrix. Device for protecting door edges, and method and apparatus for forming same. 3,168,884, 2-9-65, Cl. 113-51.
- Williams, Jack: *See*—
Wheatley, Christopher C. H., George, Lloyd, and Williams. 3,205,174.
- Williams, James C., to Baker Oil Tools, Inc. Stage collars for tubular strings. 3,216,452, 11-9-65, Cl. 37-614.13.
- Williams, James L.: *See*—
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Rozlog, Matt, and Williams. 3,167,368.
- Williams, James R. Aquaplane. 3,200,421, 8-17-65, Cl. 9-310.
- Williams, James T.: *See*—
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Cobb, Clifton A., and Williams. 3,186,106.
- Williams, James T., and S. J. Miller, to Whirlpool Corp. Automatic control of plural heaters in a clothes drier. 3,203,079, 8-31-65, Cl. 263-10.
- Williams, Jesse J. Self lubricating bearing. 3,210,137, 10-5-65, Cl. 308-21.
- Williams, John E.: *See*—
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- Williams, John E., & Son, Inc.: *See*—
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- Williams, John G. Force balance hydrostatic-hydrodynamic thrust bearing. 3,192,000, 6-29-65, Cl. 308-9.
- Williams, John K.: *See*—
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- Williams, John L.: *See*—
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- Williams, John L. Valve having seat-carrying flange. 3,164,363, 1-5-65, Cl. 251-328.
- Williams, John L. Two way shut off valve. 3,194,269, 7-13-65, Cl. 137-614.11.
- Williams, John L. Gate valve having seat removable through flow passage. 3,207,471, 9-21-65, Cl. 251-328.
- Williams, John L., and R. Bayes, to Associated Electrical Industries Ltd. Magnetic structures. 3,211,965, 10-12-65, Cl. 317-158.
- Williams, John R., to Utah Construction & Mining Co. Form system for concrete construction. 3,168,772, 2-9-65, Cl. 25-131.
- Williams, John R., to Raytheon Co. Heavily doped base rings. 3,180,766, 4-27-65, Cl. 148-33.
- Williams, John R., to Selas Corp. of America. Industrial burner. 3,212,558, 10-19-65, Cl. 158-108.
- Williams, John R., and C. L. Feng, to Selas Corporation of America. Industrial burner. 3,199,570, 8-10-65, Cl. 158-104.
- Williams, John R., and H. J. Brusca, to Selas Corp. of America. Ratio adjusting mechanism for gas mixing machines. 3,212,526, 10-19-65, Cl. 137-625.41.
- Williams, Joseph L.: *See*—
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- Williams, Joseph M., to Electro Networks, Inc. Resonant reed relay. 3,218,408, 11-16-65, Cl. 200-91.
- Williams, Keith R., and R. T. Short, to Shell Oil Co. Electrodes for fuel cells. 3,222,224, 12-7-65, Cl. 136-86.
- Williams, Kenneth A.: *See*—
Baird, William, Batty, Parkinson, and Williams. 3,187,008.
- Williams, Kenneth S., to British Cellophane Ltd. Web tension measuring devices. 3,201,985, 8-24-65, Cl. 73-143.
- Williams, La Vergne E., to Radiation, Inc. Variable power divider or combiner for radio frequency applications. 3,219,948, 11-23-65, Cl. 333-7.
- Williams, La Vergne H., to Gunver Mfg. Co. Time clock. 3,167,380, 1-26-65, Cl. 346-82.
- Williams, Lawrence S., to Toledo Scale Corp. Condition responsive instruments. 3,179,191, 4-20-65, Cl. 177-167.
- Williams, Lawrence S., to Toledo Scale Corp. Weighing scales. 3,181,634, 5-4-65, Cl. 177-169.
- Williams, Lawrence S., to Toledo Scale Corp. Weighing scales. 3,185,236, 5-25-65, Cl. 177-255.
- Williams, Lee C.: *See*—
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- Williams, Leo C., and C. P. Rounsefell, to Minnesota Mining and Mfg. Co. Apparatus for mounting films and other inserts in cards. 3,197,353, 7-27-65, Cl. 156-366.
- Williams, Leo C., and C. P. Rounsefell, to Minnesota Mining and Mfg. Co. Apparatus for mounting films and other inserts in cards. 3,208,895, 9-28-65, Cl. 156-352.
- Williams, Leslie A., to Eastman Kodak Co. Photographic silver halide emulsions stabilized with tetrazaindene compounds. 3,202,512, 8-24-65, Cl. 96-109.
- Williams, Lewis E. Locking device. 3,174,315, 3-23-65, Cl. 70-337.
- Williams, Lloyd D.: *See*—
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- Williams, Lloyd H.: *See*—
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- Williams, Lowdon R., Jr. Paper feeding and cutting machine. 3,182,539, 5-11-65, Cl. 83-209.

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Williams, Lyle N., H. R. Alley, and H. K. Barnhizer, to General Motors Corp. Method of making vinyl foam seals. 3,170,967, 2-23-65, Cl. 264-45.
Williams, Lyndon R. Automobile parking position indicator. 3,219,972, 11-23-65, Cl. 340-61.
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Williams, Lynn A., to Anocut Engineering Co. Electrolytic cavity sinking apparatus and method for non-parallel work-piece surfaces. 3,196,093, 7-20-65, Cl. 204-143.
Williams, Lynn A., to Anocut Engineering Co. Multiphase electrolytic removal apparatus. 3,214,361, 10-26-65, Cl. 204-224.
Williams, Lynn A., to Anocut Engineering Co. Electrolytic cavity sinking apparatus and method. 3,218,248, 11-16-65, Cl. 204-284.
Williams, Marion A. Telephone installation. 3,185,535, 5-25-65, Cl. 312-223.
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Williams, Melvin F., and A. F. Thornhill, to United States of America, Navy. Pulse train generator for producing odd or even number of pulses with variable pulse spacing. 3,167,716, 1-26-65, Cl. 328-38.
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Williams, Nathan P., Jr., to United States of America, Army. Static electricity desensitizing device. 3,180,263, 4-27-65, Cl. 102-28.
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Williams, Newton H.: See—
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Williams, Ralph E., and L. J. Nowak, Jr., to Blaw-Knox Co. Weight compensating system for automatic net weighers. 3,189,109, 6-15-65, Cl. 177-68.
Williams, Raymond F., and S. L. Anerino, to Gardner-Denver Co. Bearing lubrication system for compressor apparatus. 3,178,104, 4-13-65, Cl. 230-207.
Williams, Raymond F., and M. E. Martin, to Gardner-Denver Co. Turbocharger for compressor driving engine. 3,190,068, 6-22-65, Cl. 60-13.
Williams, Rees P., to R. Ramsden & Son Ltd., and Charrington & Co. Ltd. Continuous fermentation apparatus for beer production. 3,201,328, 8-17-65, Cl. 195-141.
Williams, Rees P., $\frac{1}{2}$ to R. Ramsden & Son Ltd., and $\frac{1}{2}$ to Charrington & Co. Ltd. Continuous fermentation process for beer production. 3,207,606, 9-21-65, Cl. 99-31.
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Williams, Richard E., to Dimension Inc. Photoelectric organ. 3,197,543, 7-27-65, Cl. 84-128.
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Cosulich, Donna B., Patrick, and Williams. 3,214,440.
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Williams, Robert E., to National Engineering Science Co. Boron hydride salt-hydrazine system. 3,189,497, 6-15-65, Cl. 149-22.
Williams, Robert E., to Rexall Drug and Chemical Co. Process for the preparation of amino acids. 3,190,914, 6-22-65, Cl. 260-534.
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Williams, Roy O. Football practice apparatus. 3,216,724, 11-9-65, Cl. 273-55.
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Williams, Samuel G., to The New York Air Brake Co. Hydrostatic transmission. 3,203,185, 8-31-65, Cl. 60-53.
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Williams, Shelley R. Toothpaste dispenser. 3,173,578, 3-16-65, Cl. 222-93.
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Williams, Stewart, A. A., Petersen, and E. H. R. Pegg, to Universal Oil Products Co. Apparatus for interphase contact between fluids. 3,219,324, 11-23-65, Cl. 261-95.
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- Williams, Verl E. Automatic oil well pumping and timing device. 3,164,095, 1-5-65, Cl. 103-26.
- Williams, Vernon H.: *See*—
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- Williams, Victor K.: *See*—
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- Williams, Virgil C. Space conditioning apparatus. 3,200,607, 8-17-65, Cl. 62-274.
- Williams, Walter. Chance selective racing game. 3,214,172, 10-26-65, Cl. 273-86.
- Williams, Walter D., to Symons Mfg. Co. Concrete slab form fill-in panel structure and supporting bracket therefor. 3,170,217, 2-23-65, Cl. 25-131.5.
- Williams, William A., to T. B. Wood's Sons Co. Variable pitch sheaves having a large number of grooves. 3,200,660, 8-17-65, Cl. 74-230.17.
- Williams, William J. Multiple switch speed controlled mechanism. Re. 25,854, 9-7-65, Cl. 200-80.
- Williams, William J. Speed responsive switch mechanism for actuating a pair of sequentially operated switches. 3,225,157, 12-21-65, Cl. 200-80.
- Williams, William R. Musical instrument mouthpiece. 3,191,483, 6-29-65, Cl. 84-398.
- Williams, William T., to Brixite Ltd. Method of moulding cement articles. 3,217,069, 11-9-65, Cl. 264-42.
- Williams, Willie. Bumper for baby walkers. 3,183,028, 5-11-65, Cl. 293-62.
- Williamsen, Everett J., to Globe-Union Inc. Device for casting battery grids. 3,200,452, 8-17-65, Cl. 22-79.
- Williamson, Alan G., to Canadian Breweries Ltd. Method of heating wort. 3,226,235, 12-28-65, Cl. 99-52.
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- Williamson, David T. N., to Molins Machine Co. Ltd. Mouthpieces for cigarettes. 3,166,079, 1-19-65, Cl. 131-20.
- Williamson, David T. N., to Molins Machine Co. Ltd. Hydraulic systems. 3,168,013, 2-2-65, Cl. 92-112.
- Williamson, David T. N., to Molins Machine Co. Ltd. Tool location in automatically controlled machine tools. 3,171,327, 3-2-65, Cl. 90-11.
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- Williamson, David T. N., C. E. T. Smith, and J. H. Swarbrick, to The Molins Organisation Ltd. Apparatus for gripping a rod-like article. 3,210,088, 10-5-65, Cl. 279-4.
- Williamson, Donald E., to Cordis Corp. Optical recording system. 3,197,782, 7-27-65, Cl. 346-109.
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- Williamson, Floyd M. Adjustable pierce unit. 3,205,742, 9-14-65, Cl. 83-140.
- Williamson, Floyd M. Hydraulic system for dies. 3,208,219, 9-28-65, Cl. 60-51.
- Williamson, Frank P., and R. C. Bieneman, to Continental Oil Co. Alkylation process. 3,207,800, 9-21-65, Cl. 260-671.
- Williamson, George H., to Johns-Manville Corp. Automatic shingle stacker. 3,186,565, 6-1-65, Cl. 214-6.
- Williamson, George M. Ring frame traverse device. 3,183,026, 5-11-65, Cl. 287-96.
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- Williamson, Glenn E., to Analytic Systems Co. Handle. 3,197,803, 8-3-65, Cl. 16-111.
- Williamson, Harry A.: *See*—
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- Williamson, Herschel M., to Caterpillar Tractor Co. Retaining pin for telescoped parts comprising separate longitudinally bowed sequentially insertable resilient members. 3,175,314, 3-30-65, Cl. 37-142.
- Williamson, John, to Drake Engineering, Inc. Lubricator. 3,187,840, 6-8-65, Cl. 184-1.
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- Williamson, John M. Remote reading gauge. 3,217,541, 11-16-65, Cl. 73-321.
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- Williamson, John T., to Freeport Sulphur Co. Method of concentrating liquid-containing mixtures. 3,212,559, 10-19-65, Cl. 159-4.
- Williamson, Richard B.: *See*—
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- Williamson, Robert B., and I. A. De Kramer, to General Railway Signal Co. Car retarder for railroads. 3,164,224, 1-5-65, Cl. 188-62.
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- Williamson, Robert L.: *See*—
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- Williamson, Roger L. Kite construction. 3,193,224, 7-6-65, Cl. 244-153.
- Williamson, Roger L. Motor driven reel for kites. 3,202,378, 8-24-65, Cl. 242-84.1.
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- Williamson, William R., to American Machine & Foundry Co. Sea water distillation method and apparatus to provide a superpure distillate. 3,183,174, 5-11-65, Cl. 202-75.
- Williamson, William R., to American Machine & Foundry Co. Flash evaporator. 3,186,924, 6-1-65, Cl. 202-173.
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- Williford, Oscar H., to Bell Telephone Laboratories, Inc. Multicustomer private branch exchange. 3,180,941, 4-27-65, Cl. 179-27.
- Williford, Oscar H., to Bell Telephone Laboratories, Inc. Multicustomer private branch exchange. 3,183,307, 5-11-65, Cl. 179-7.
- Williford, Oscar H., to Bell Telephone Laboratories, Inc. Multicustomer private branch exchange. 3,215,784, 11-2-65, Cl. 179-27.
- Willinger, Allan H., to Aquariums Inc. Water treatment unit. 3,199,678, 8-10-65, Cl. 210-169.
- Willinger, Allan H., to Aquariums Inc. Aquarium cleaning device. 3,225,930, 12-28-65, Cl. 210-241.
- Willinger, Allan H. and H. W., to Aquarium Inc. Aquarium assembly. 3,225,736, 12-28-65, Cl. 119-5.
- Willinger, Harding W.: *See*—
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- Willinger, William G. Single lever control for hydraulic backhoes. 3,214,040, 10-26-65, Cl. 214-138.
- Willis, Alan E.: *See*—
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- Willis, Arthur B.: *See*—
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- Willis, Beuford N., and H. W. Grotewold, to FMC Corp. Fruit preparation machine. 3,172,524, 3-9-65, Cl. 198-33.
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- Willis, Dale E.: *See*—
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- Willis, Frank M., to E. I. du Pont de Nemours and Co. Variable orifice extruder die. 3,178,770, 4-20-65, Cl. 18-12.
- Willis, Glen R.: *See*—
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- Willis, Grant N., to The American Mfg. Co., Inc. Crimping device for strapping material operating both during instroke and outstroke of the handles. 3,200,675, 8-17-65, Cl. 81-9.1.
- Willis, Grant N., to American Mfg. Co., Inc. Mechanical apparatus. 3,205,916, 9-14-65, Cl. 140-93.2.
- Willis, Harold W.: *See*—
Cooley, Farris W., and Willis. 3,216,696.
- Willis, Hector F.: *See*—
Voglis, Gregory M., and Willis. 3,185,956.
Voglis, Gregory M., and Willis. 3,202,961.

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- Willis, John A., and I. C. Courson, to Philco Corp. Refrigerator tray and cover support. 3,178,249, 4-13-65, Cl. 312-350.
- Willis, John D., and C. S. Crowell; said Willis assor. to said Crowell. Stabilized cartons. 3,224,660, 12-21-65, Cl. 229-8.
- Willis, Julian G., Jr., and S. E. Howard. Retaining clip for headed fasteners. 3,189,077, 6-15-65, Cl. 151-69.
- Willis, Lester C. Water evaporator for automobile air conditioner. 3,199,307, 8-10-65, Cl. 62-241.
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- Willis, Robert S., deceased; N. E. Willis, executrix. Multiple orifice valve. 3,207,181, 9-21-65, Cl. 137-625.31.
- Willis, Robert S., deceased (N. E. Willis, executrix), and W. J. Baker; said Baker assor. to said Willis. Fluid pressure controlled shut-off valve responsive to predetermined line pressures. 3,198,207, 8-3-65, Cl. 137-458.
- Willis, Robert S., deceased (N. E. Willis, executrix), and W. J. Baker; said Baker assor. to said Willis. Valve mechanisms. 3,203,266, 8-31-65, Cl. 74-128.
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- Willis, William M., and A. S. Lindsey, to Aeroquip Corp. High speed dynamic fluid pump. 3,180,268, 4-27-65, Cl. 103-87.
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- Willison, Donald, to National Castings Co. Railway coupler aligning apparatus. 3,197,037, 7-27-65, Cl. 213-21.
- Williston, Samuel H., to Cordero Mining Co. Ultra-violet radiation absorption analysis apparatus for the detection of mercury vapor in a gas. 3,178,572, 4-13-65, Cl. 250-43.5.
- Williston, Samuel H., and M. H. Morris, to Cordero Mining Co. Method and apparatus for measurement of mercury vapor. 3,173,016, 3-9-65, Cl. 250-218.
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- Willits, George W., Jr. Metering valve structure. 3,224,650, 12-21-65, Cl. 222-207.
- Willits, Samuel P., and W. L. Mohan, Jr., to Spartans, Ltd. Conveying apparatus. 3,220,569, 11-30-65, Cl. 214-6.
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- Willman, Bertram T., to Jersey Production Research Co. In-situ combustion process. 3,170,515, 2-23-65, Cl. 166-11.
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- Willman, Philip E., to McGraw-Edison Co. Jet steam iron. 3,165,843, 1-19-65, Cl. 38-77.
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- Wonneberger, William P., to Automatic Canteen Co. of America. Coffee granulizing apparatus. 3,167,261, 1-26-65, Cl. 241-159.
- Wonneman, Roman F. Apparatus for applying curved dip tubed closures to containers. 3,212,173, 10-19-65, Cl. 29-208.
- Wonneman, Roman F. Inline apparatus for assembling flexible curved dip tube closures to containers. 3,212,174, 10-19-65, Cl. 29-208.
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- Woo, Ji Y.: See—
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- Woo, Paul W.: See—
Anyang, Raymond P., Sippel, Woo, and Wroblewski. 3,179,924.
- Wood, Andrew S.: See—
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Grosser, Frederick, Leibowitz, and Wood. 3,222,329.
- Wood, Anthony A. R., and E. C. Shears, to United States Borax & Chemical Corp. Method of manufacturing boron nitride. 3,189,412, 6-15-65, Cl. 23-191.
- Wood, Anthony W., to Karma (New Malden) Ltd. Control means for valves. 3,202,199, 8-24-65, Cl. 158-42.1.
- Wood, Barrie: See—
Bethell, James R., Hadley, and Wood. 3,198,751.
- Wood, Brainerd, to Honeywell Inc. Sprocket hole checking system. 3,222,501, 12-7-65, Cl. 235-61.7.
- Wood, Carl O., to Westinghouse Electric Corp. Centrifugal fans. 3,191,851, 6-29-65, Cl. 230-127.
- Wood, Charles, and O. Tischler, to General Precision Inc. Displacement measuring device. 3,208,276, 9-28-65, Cl. 73-170.
- Wood, Charles R., to Republic Packaging Corp. Cushioned package. 3,173,535, 3-16-65, Cl. 206-46.
- Wood, Charles W., G. F. G. Clough, J. W. Abson, and A. D. Murphy, to Simon-Carves Ltd. Aeration of liquids. 3,208,734, 9-28-65, Cl. 259-111.
- Wood Conversion Co.: See—
Anderson, David B. 3,187,389.
Carlson, Lorien A., and Kozack. 3,202,025.
Valsvik, Donald J. 3,165,791.
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Videen, Otis R. 3,202,570.
- Wood, David D.: See—
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- Wood, Derek A.: See—
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- Wood, Derek J.: See—
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- Wood, Donald C., to Whirlpool Corp. Detergent for soiled fibers. 3,213,028, 10-19-65, Cl. 252-89.
- Wood, Donald C., and R. C. Davis, to Whirlpool Corp. Laundering composition. 3,177,149, 4-6-65, Cl. 252-153.
- Wood, Donald L., to Concrete-Steel Corp. Mount for tractor canopy. 3,203,728, 8-31-65, Cl. 298-102.
- Wood, Donald V., to Whirlpool Corp. Dishwasher. 3,184,166, 5-18-65, Cl. 239-245.
- Wood Electric Corp.: See—
Brackett, Lawrence W. 3,217,125.
- Wood, Ernest, and A. Frenkel, 25% to P. B. Samuel and 25% to R. G. Le Vaux. Dissector-obstructor apparatus. 3,175,556, 3-30-65, Cl. 128-305.
- Wood, Ernest C.: See—
Brown, Adolph M. 3,209,754.
- Wood, Ernest C., 33 1/4% each to R. Le Vaux, and A. M. Brown. Ligature tying mechanism. 3,169,526, 2-16-65, Cl. 128-326.
- Wood, Fenton M.: See—
Deem, Hubert A., Walters, and Wood. 3,202,914.
- Wood, Fenton M., to American Machine & Foundry Co. Ultrasonic inspection device. 3,220,248, 11-30-65, Cl. 73-67.7.
- Wood, Fenton M., and W. T. Walters. Apparatus for inspecting pipe for defects. 3,225,293, 12-21-65, Cl. 324-37.
- Wood, Forrest H. Method of cementing wells. 3,213,940, 10-26-65, Cl. 166-26.
- Wood, Francis H., to Elliott Bros. (London) Ltd. Display of information. 3,188,998, 6-15-65, Cl. 116-129.
- Wood, Frank C.: See—
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- Wood, Frank J., to The Plessey Co. Ltd. Memory matrix frames. 3,218,694, 11-23-65, Cl. 29-155.5.
- Wood, Fred A., and J. A. Gordon. Animal and wild game trap. 3,200,534, 8-17-65, Cl. 43-61.
- Wood, Frederick C., to Union Oil Co. of California. Refining of petrolatum. 3,208,931, 9-28-65, Cl. 208-27.
- Wood, Frederick C., W. E. Bradley, and B. Peralta, to Union Oil Co. of California. Process for hydrocracking a nitrogen containing feed including pretreatment of catalyst. 3,186,936, 6-1-65, Cl. 208-89.
- Wood, Gar, Industries, Inc.: See—
Anderson, Arthur F. 3,177,964.
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Aske, Charles B., Jr. 3,183,038.
Aske, Charles B., Jr. 3,183,039.
Aske, Charles B., Jr. 3,220,775.
Mulhern, William A., and Spisak. 3,174,803.
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- Wood, Garfield A. Heavy duty switch having spaced contact assemblies. 3,165,613, 1-12-65, Cl. 200-163.
- Wood, Garfield A. Seat-actuated brake and switch arrangement for motor vehicles. 3,211,250, 10-12-65, Cl. 180-82.
- Wood, Garfield A., Jr. Fishing reel with friction drive. 3,184,179, 5-18-65, Cl. 242-84.45.
- Wood, George A.: See—
Boynton, Ira D., and Wood. 3,204,855.
- Wood, George C. Rotary side delivery rakes. 3,167,900, 2-2-65, Cl. 56-377.
- Wood, George C. Side delivery rakes. 3,220,172, 11-30-65, Cl. 56-377.
- Wood, George F. L., to Eastman Kodak Co. Zirconia subbed photographic paper. 3,169,865, 2-16-65, Cl. 96-8.
- Wood, George M., to Texaco Inc. Dropable tool for injecting fluid. 3,199,596, 8-10-65, Cl. 166-115.
- Wood, George P., A. F. Carter, and A. Busemann, to United States of America, National Aeronautics and Space Administration. Plasma accelerator. 3,171,060, 2-23-65, Cl. 315-111.
- Wood, George W.: See—
Gres, Marcel E., Wood, and Schaeffer. 3,169,477.
- Wood, Hamish C. S.: See—
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- Wood, Harold F. Rotary buffing tool. 3,177,511, 4-13-65, Cl. 15-97.
- Wood, Herbert K.: See—
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- Wood, Homer J.: See—
LeMay, Dan B., Parker, Paul, Silver, Stein, and Wood. 3,167,954.
- Wood, Horace E., to Worthington Corp. Induction circulator. 3,194,307, 7-13-65, Cl. 165-123.
- Wood, Irwin B., J. A. Pankavich, and R. E. Bambury, to American Cyanamid Co. Anthelmintic compositions containing substituted styrylpyridinium compounds and method of administering same. 3,177,116, 4-6-65, Cl. 167-53.
- Wood, Irwin B., R. E. Bambury, and H. Berger, to American Cyanamid Co. Anthelmintic compositions of styrylpyridinium compounds and method of administering the same. 3,179,559, 4-20-65, Cl. 167-53.
- Wood, James A.: See—
Schroter, Richard C., and Wood. 3,181,275.
- Wood, James A., to Sylvania Electric Products Inc. Method of manufacture of semiconductor devices. 3,172,188, 3-9-65, Cl. 29-25.3.
- Wood, James A. H.: See—
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- Wood, James H., to Lockheed Aircraft Corp. Fluid pressure operated valve. 3,194,143, 7-13-65, Cl. 98-1.5.
- Wood, James M., Jr., to Ethyl Corp. Tetraethyllead-tetramethyllead antiknock fluids. 3,197,414, 7-27-65, Cl. 252-386.
- Wood, John, to International Alloys Ltd. Aluminium-copper alloys. 3,205,069, 9-7-65, Cl. 75-140.
- Wood, John, Co.: See—
Dekker, Herman C. 3,175,730.
Nelson, Lowell F. 3,178,057.
- Wood, John F., to Euphonia Corp. Phonograph cartridge. 3,215,440, 11-2-65, Cl. 274-36.
- Wood, John F., R. E. Eby, and T. C. Neward. Vacuum extractor for childbirth. 3,202,152, 8-24-65, Cl. 128-361.
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- Wood, James F. Drafting instrument. 3,225,449, 12-28-65, Cl. 33-177.
- Wood, John F.: See—
- Wiggins, Alpha M., and Wood. 3,224,783.
- Wood, John F., and J. Frisz, to Euphonia Corp. Magnetic head construction. 3,222,461, 12-7-65, Cl. 179-100.2.
- Wood, Kathryn: See—
- Walworth, Bryant L., Lutz, and Wood. 3,166,398.
- Walworth, Bryant L., Lutz, and Wood. 3,183,074.
- Wood, Leon G. S.: See—
- Catheron, Allan R., Wood, and Howe. 3,196,900.
- Wood, Louis A.: See—
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- Wood, Louis L., to W. R. Grace Co. Method for removing water from formaldehyde. 3,169,840, 2-16-65, Cl. 55-29.
- Wood, Louis L., to W. R. Grace & Co. Purification process for gaseous formaldehyde. 3,201,917, 8-24-65, Cl. 55-35.
- Wood, Louis L., to W. R. Grace & Co. Expandable composition comprising a thermoplastic resin and a urea-formaldehyde-hydrogen peroxide reaction product and process of forming same. 3,226,346, 12-28-65, Cl. 260-2.5.
- Wood, Louis L., Jr., to W. R. Grace & Co. Polymerization and co-polymerization of thioxane in inert solvents. 3,197,438, 7-27-65, Cl. 260-67.
- Wood, Marion L., Jr. Educational device. 3,166,857, 1-26-65, Cl. 35-9.
- Wood, Morris E., to Bronson Specialties, Inc. Spinning reel. 3,198,456, 8-3-65, Cl. 242-84.2.
- Wood Newspaper Machinery Corp.: See—
- Buettel, Paul M. 3,198,452.
- Worthington, Emory W., and Britton. 3,191,531.
- Worthington, Emory W., and Wilson. 3,167,010.
- Wood, Noah P., to Diebold Inc. Tabulating card file tray construction. 3,204,640, 9-7-65, Cl. 129-26.
- Wood, Palmer R., E. R. Chapman, and W. W. Spragins, to The Garrett Corp. Combination engine starter and accessory drive mechanism. 3,188,479, 6-8-65, Cl. 290-4.
- Wood, Parker F. Adjustable drill sharpening guide. 3,172,242, 3-9-65, Cl. 51-239.
- Wood, Paul R., to United States Rubber Co. Joint sealer and paving compositions containing liquid polyurethane and bituminous material. 3,179,610, 4-20-65, Cl. 260-28.
- Wood, Paul R., to United States Rubber Co. Method of treating benzothiazyl disulfide. 3,179,666, 4-20-65, Cl. 260-306.5.
- Wood, Paul W., Jr., to United States of America, Air Force. Head restraint for use in space vehicles. 3,170,659, 2-23-65, Cl. 244-122.
- Wood, Philip: See—
- Duke, Keith A., and Wood. 3,210,738.
- Wood, Prentice J., to The Mead Corp. Article carrier. 3,169,691, 2-16-65, Cl. 229-40.
- Wood, Prentice J., to The Mead Corp. Article carrier. 3,190,487, 6-22-65, Cl. 220-115.
- Wood, Prentice J., to The Mead Corp. Packaging machine. 3,203,153, 8-31-65, Cl. 53-48.
- Wood, Prentice J., to The Mead Corp. Article carrier. 3,203,585, 8-31-65, Cl. 220-115.
- Wood Processes, Oregon Ltd.: See—
- Chapman, Ralph. 3,170,604.
- Wood, Raymond E., to Radio Industries, Inc. Piezoelectric electric coupling unit. 3,209,273, 9-28-65, Cl. 330-21.
- Wood, Rex C.: See—
- Demorest, Howard L., and Wood. 3,174,037.
- Wood, Richard A.: See—
- Giulie, Joe D., and Wood. 3,203,547.
- Wood, Richard A., to Illumitronic Systems Corp. Differential amplifier and level detector. 3,204,117, 8-31-65, Cl. 307-88.5.
- Wood, Robert F., to General Electric Co. Vertical deflection circuit. 3,177,437, 4-6-65, Cl. 330-10.
- Wood, Robert F., to General Electric Co. High level sawtooth waveform voltage generator. 3,184,617, 5-18-65, Cl. 307-107.
- Wood, Robert S., to The Plessey Co. Ltd. Flyweight-operated governor valves. 3,176,701, 4-6-65, Cl. 137-56.
- Wood, Robert S., to The Plessey Co. (U.K.) Ltd. Gear pumps. 3,195,469, 7-20-65, Cl. 103-126.
- Wood, Ross: See—
- Rabelow, Harold H., and Wood. 3,202,028.
- Wood, Russell E., to Carrier Corp. Refrigeration head pressure control systems. 3,196,629, 7-27-65, Cl. 62-183.
- Wood, Sherman L.: See—
- Rittenhouse, Howard E., and Wood. 3,182,504.
- Wood Shovel and Tool Co., The: See—
- Ellis, Bill D. 3,198,565.
- Wood, Sidney W. H., and D. G. Bridges, to Rotol, Dowty Ltd. Aircraft and devices for launching same. 3,178,132, 4-13-65, Cl. 244-63.
- Wood, Stuart: See—
- Mitchell, John D., Page, and Wood. 3,209,604.
- Wood, Thomas F.: See—
- Kitchens, Garry C., and Wood. 3,197,500.
- Wood, Thomas M. N.: See—
- Jager, Holger N., Needre, Gillis, and Wood. 3,164,304.
- Wood, Walter E.: See—
- Sawyer, Loren A., and Wood. 3,181,267.
- Wood, Walter L. Molds and process for using the same. 3,174,188, 3-23-65, Cl. 18-36.
- Wood, Warren R., to Robert Bosch G.m.b.H. Series stacked transistorized ignition system having diodes in series with the bases. 3,184,638, 5-18-65, Cl. 315-206.
- Wood, Wilburn W. Thermally actuated power aerial device. 3,190,033, 6-22-65, Cl. 46-74.
- Wood, William G. E., and P. B. Thomas, to A.E.I.-John Thompson Nuclear Energy Co. Ltd. Method of constructing a nuclear reactor core from graphite blocks. 3,213,530, 10-26-65, Cl. 29-428.
- Wood, William H.: See—
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- Wood, William H., to General Electric Co. Pushbutton magnetic switch with a memory. 3,176,097, 3-30-65, Cl. 200-87.
- Wood, William H., to General Electric Co. Shock absorbing bearing. 3,199,903, 8-10-65, Cl. 287-100.
- Wood, William T.: See—
- Wallbrech, Edward C., Willmann, and Wood. 3,214,984.
- Wood, William T. Adjustable sheet guides for tape delivery presses. 3,171,648, 3-2-65, Cl. 271-49.
- Wood, William W., Jr., to General Precision, Inc. Training apparatus. 3,205,592, 9-14-65, Cl. 35-11.
- Wood, Willis A., and S. R. Gilford. Recording absorption-spectrophotometer utilizing a selectively variable cuvette position cycle and having means to immobilize the recorder pen between measurement periods. 3,224,321, 12-21-65, Cl. 88-14.
- Woodall, Walter N., to Newport News Shipbuilding and Dry Dock Co. Welding fixture. 3,182,988, 5-11-65, Cl. 269-37.
- Woodard, Joseph H., to Woodard Mfg. Co. Method of manufacturing woven metal articles of furniture. 3,225,431, 12-28-65, Cl. 29-419.
- Woodard Mfg. Co.: See—
- Woodard, Joseph H. 3,225,431.
- Woodbine, Malcolm: See—
- Cullimore, Denis R., and Woodbine. 3,218,240.
- Woodburn, James Jr., to Amsted Industries Inc. Pressure pouring apparatus. 3,216,070, 11-9-65, Cl. 22-82.
- Woodbury, Eric J.: See—
- Morse, James H., and Woodbury. 3,199,049.
- Woodbury, Richard T.: See—
- Grimes, John J., Jr., Lucht, and Woodbury. 3,188,791.
- Woodcock, Charles A., to Stewart-Warner Corp. Adjustable plunger switch. 3,190,982, 6-22-65, Cl. 200-61.81.
- Woodcock, Edward C. Photographic processing apparatus. 3,195,438, 7-20-65, Cl. 95-94.
- Woodcock, Edward C. Focussing cam structure. 3,215,034, 11-2-65, Cl. 88-24.
- Woodcock, Edward C., and I. G. Hunter. Negative support for projection printers. 3,203,311, 8-31-65, Cl. 88-24.
- Woodcock, Fletcher H., to Ithaca Gun Co., Inc. Recoil pad for gun stocks. 3,208,180, 9-28-65, Cl. 42-74.
- Woodcock, Richard F., to American Optical Co. Fiber optical image transfer devices and method of making the same. 3,215,029, 11-2-65, Cl. 88-31.
- Woodcock, Richard F., to American Optical Co. Method for making fiber optical devices. 3,216,807, 11-9-65, Cl. 65-4.
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- Woodcock, Richard F., and G. A. Granitsas, to American Optical Co. Energy conducting device. 3,195,219, 7-20-65, Cl. 29-25.18.
- Woodcock, Wilburn W.: See—
- Swaney, Earl T., and Woodcock. 3,200,925.
- Woodell, Dorothy R.: See—
- Roberts, William A., and Watkins. 3,187,781.
- Woodell, Rudolph, to E. I. du Pont de Nemours and Co. Tubular fluid conduit of film fibril elements. 3,183,941, 5-18-65, Cl. 138-141.
- Woodford Mfg. Co.: See—
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- Noland, Wayne B. 3,192,546.
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- Woodhall, Edwin S., to The Goodyear Tire & Rubber Co. Apparatus for calendaring or sheeting deformable material. 3,182,587, 5-11-65, Cl. 100-47.
- Woodhams, Raymond T.: See—
- Adamek, Stephen, Dudley, and Woodhams. 3,211,709.
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- Schagen, Pieter, Taylor, and Woodhead. 3,225,204.
- Woodhouse, Leslie S., to Vasco Industries Corp. Manufacture of thermoplastic moulded articles. 3,172,160, 3-9-65, Cl. 18-26.
- Wooding, Patrick J.: See—
- Sieckman, Walter, Wooding, and Wynne. 3,203,688.
- Wynne, Peter J., Wooding, and Sieckman. 3,203,687.
- Wooding, Patrick J., to Consarc Corp. Apparatus for supporting and conducting electric current to a load. 3,202,751, 8-24-65, Cl. 13-31.
- Wooding, Patrick J., to Consarc Corp. Electrode stub clamp. 3,215,974, 11-2-65, Cl. 339-241.
- Wooding, Patrick J., P. J. Wynne, and W. Sieckman, to McGraw-Edison Co. Apparatus for degassing molten metal. 3,203,686, 8-31-65, Cl. 266-34.
- Wooding, Walter H.: See—
- Reilly, James M., Wooding, and Moore. 3,208,886.
- Woodkor Corp.: See—
- Fleming, Walter I., and Krellick. 3,219,252.
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- Woodland, Paul C., to The Dow Chemical Co. Method of foaming a package having an electrical zip tape. 3,201,911, 8-24-65, Cl. 53-36.
- Woodle, Billy T., to American Mfg. Co. of Texas. Machine tool spindle. 3,165,016, 1-12-65, Cl. 82-30.
- Woodle, Robert A., to Texaco Inc. Process for solvent refining hydrocarbon oils. 3,167,501, 1-26-65, Cl. 208-313.
- Woodle, Robert A., to Texaco Inc. Dewaxing of mineral oils. 3,171,798, 3-2-65, Cl. 208-33.
- Woodley, George V., to Basic Products Corp. Voltage regulator with a saturable reactor utilizing predetermined non-linear feedback means. 3,178,634, 4-13-65, Cl. 323-89.
- Woodling, George V. Trunk lid hold-down mechanism. 3,195,940, 7-20-65, Cl. 292-262.
- Woodlyn Corp.: See—
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- Woodman, Kenneth L., to Westinghouse Electric Corp. Disposable element reflector pan. 3,165,201, 1-12-65, Cl. 206-56.
- Woodman, Murray H., to Square D Co. Enclosure for electrical device. 3,166,632, 1-19-65, Cl. 174-51.
- Wood-Newspaper Machinery Corp.: See—
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- Woodring, William B., to Olin Mathieson Chemical Corp. Plastic cartridge. 3,176,614, 4-6-65, Cl. 102-43.
- Woodrow, Wallace H.: See—
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- Woodruff, Lee B.: See—
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Davies, Ben, Woodruff, and Hanson. 3,210,206.
- Woodruff, Roger W., to Harbison-Walker Refractories Co. Refractories with improved intermediate temperature strength. 3,171,751, 3-2-65, Cl. 106-58.
- Woodruff, Walter M. Timing control system. 3,173,030, 3-9-65, Cl. 307-141.
- Woodruffe-Peacock, Thomas W., to William Grant and Sons Ltd. Means for facilitating the assembly of barrel staves and heads. 3,186,095, 6-1-65, Cl. 33-174.
- Woodrum, Harold L., to The Steelcraft Mfg. Co. Mounting mechanism for sectional metal door frames. 3,222,833, 12-14-65, Cl. 52-211.
- Woods, Allan M. Traffic control means. 3,188,927, 6-15-65, Cl. 94-1.5.
- Woods, Bernard N.: See—
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- Woods, Charles W., and A. B. Borkovec, to United States of America, Agriculture. Insect chemosterilants. 3,180,792, 4-27-65, Cl. 167-33.
- Woods, Charles W., and A. B. Borkovec, to United States of America, Agriculture. Dithio-bis-aziridine and 2-methyl derivative thereof. 3,197,465, 7-27-65, Cl. 260-239.
- Woods, Clarence W., Jr.: See—
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- Woods of Colchester Ltd.: See—
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- Woods, Donald B., to The International Nickel Co., Inc. Internal tube finishing machine. 3,164,039, 1-5-65, Cl. 77-1.
- Woods, Donald C., to Del Mar Engineering Laboratories. Landing gear for hovering type aircraft. 3,173,632, 3-16-65, Cl. 244-100.
- Woods, Edmund W.: See—
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- Woods, Eleanor: See—
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- Woods, Elvin L.: See—
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- Woods, Francis L.: See—
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- Woods, George H.: See—
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- Woods, Harry M.: See—
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- Woods, John A.: See—
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- Woods, John A., D. E. Sharp, deceased (by Ohio Citizens Trust Co., executor), and A. E. Badger, to Libbey-Owens-Ford Glass Co. Method and apparatus for producing multiple sheet glazing units. 3,202,494, 8-24-65, Cl. 65-58.
- Woods, John E., deceased, by E. Woods, executrix, and P. B. Sargent, executor, to Standard-Thomson Corp. Thermodynamically controlled valve. 3,179,339, 4-20-65, Cl. 236-34.
- Woods, John E., to Standard-Thomson Corp. Thermal responsive unit. 3,180,149, 4-27-65, Cl. 73-358.
- Woods, John P.: See—
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- Woods, John P., to The Atlantic Refining Co. Seismic record corrector. 3,175,182, 3-23-65, Cl. 340-15.5.
- Woods, John P., to Atlantic Refining Co. Production of electrical current from oscillatory traces. 3,209,321, 9-28-65, Cl. 340-15.5.
- Woods, John P., E. B. Neltzel, and T. Prickett, Jr., to The Atlantic Refining Co. Log transcribing and scale changing method and apparatus. 3,185,994, 5-25-65, Cl. 346-1.
- Woods, John P., and T. Prickett, Jr., to The Atlantic Refining Co. Automatic curve following system. 3,207,964, 9-21-65, Cl. 318-31.
- Woods, John P., and H. R. Barta, to The Atlantic Refining Co. Drive belt. 3,208,297, 9-28-65, Cl. 74-231.
- Woods, John P., T. Prickett, Jr., and E. B. Neltzel, to The Atlantic Refining Co. Playback system. 3,210,770, 10-5-65, Cl. 346-33.
- Woods, John P., E. B. Neltzel, and T. Prickett, Jr., to The Atlantic Refining Co. Phase splitter. 3,222,546, 12-7-65, Cl. 307-88.5.
- Woods, John W., to Sierra Spun Metals, Inc. Loud speaker construction. 3,198,283, 8-3-65, Cl. 181-32.
- Woods, Leroy R., to International Telephone and Telegraph Corp. Oscillating vibration table with air center. 3,224,255, 12-21-65, Cl. 73-71.6.
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- Woods, Stephen E.: See—
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- Woods, T. B., Sons Co.: See—
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- Woods, Verle W. Stabilization of concentrated suspensions of pesticide particles. 3,184,380, 5-18-65, Cl. 167-43.
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- Worth, Francis C., to Adolph Gottscho, Inc. Hot roll leaf stamping apparatus. 3,217,637, 11-16-65, Cl. 101-25.
- Worth, Maurice W.: See—
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- Worth, Thomas C., and A. G. Hobson, to British Filters Ltd. Filtration apparatus for filtering liquids. 3,200,955, 8-17-65, Cl. 210-492.

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- Wright, Theodore M. Slide fasteners. 3,163,906, 1-5-65, Cl. 24-205.11.
- Wright, Theodore M. Method of applying end connectors to slide fasteners. 3,222,768, 12-14-65, Cl. 29-410.
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- Benjamin, E. Burton, to C. Creators & Co., Inc. Automatic popcorn machine or the like. 200,750, 3-30-65, Cl. D81-10.
- Benjamin, E. Burton, to Loma Industries. Trash receptacle. 200,882, 4-13-65, Cl. D58-17.
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- Bertoldo, Joseph M. Hand grip attachment for a hospital-type bed. 199,957, 1-5-65, Cl. D5-2.
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- Bertschinger, Jacques, to Hammerli Aktiengesellschaft. Sport rifle. 203,344, 12-28-65, Cl. D30-1.
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Bowden, Benjamin G. Bicycle frame. 201,629, 7-6-65, Cl. D90-8.

Bowden, Benjamin G. Bicycle frame. 201,630, 7-6-65, Cl. D90-8.

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Bowden, Benjamin G. Bicycle frame. 201,799, 7-6-65, Cl. D90-8.

Bowden, Benjamin G. Bicycle frame. 201,800, 7-6-65, Cl. D90-8.

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Bowden, Benjamin G. Bicycle frame. 201,804, 7-6-65, Cl. D90-8.

Bowden, Benjamin G. Bicycle frame. 201,805, 7-6-65,

- Bowden, Roy N. Oil-seal puller tool. 201,302, 6-8-65, Cl. D54-13.
- Bowden, Roy N. Oil-seal puller tool. 203,299, 12-21-65, Cl. D54-13.
- Bowen, Lloyd R. Combined fan and mounting bracket for cooling electronic equipment and the like. 200,450, 2-23-65, D62-4.
- Bowen, Tom. Housing for a measuring instrument. 202,733, 11-2-65, Cl. D52-7.
- Bower, Gerald C., and W. M. Becker, to Royal Industries, Inc. Dispenser for tie strips or the like. 200,347, 2-16-65, Cl. D52-1.
- Bowers, Donald R., to The Hoover Co. Clothes washer. 202,374, 9-21-65, Cl. D49-1.
- Bowes, John G., and J. N. Rosekrans, Jr., to Kransco Mfg., Inc. Children's pool or similar article. 202,113, 8-31-65, Cl. D34-5.
- Bowland, Charles R. Combined mirror and flashlight. 202,487, 10-5-65, Cl. D86-10.
- Boyd, Dewey D. Playground ferris wheel. 200,716, 3-30-65, Cl. D34-5.
- Boyd, Eugene L. Lawn sprinkler. 200,041, 1-5-65, Cl. D91-1.
- Bozarth, Charles E., to General Electric Co. Cabinet for electronic equipment. 201,886, 8-10-65, Cl. D26-5.
- Bozarth, Charles E., to General Electric Co. Cabinet for electronic equipment. 201,887, 8-10-65, Cl. D26-5.
- Bozek, John S., to Continental Can Co., Inc. End closure for a container. 200,021, 1-5-65, Cl. D58-26.
- Bozek, John S., to Continental Can Co., Inc. End closure for a container. 200,607, 3-16-65, Cl. D58-26.
- Bozek, John S., to Continental Can Co., Inc. End closure for a container. 200,608, 3-16-65, Cl. D58-26.
- Bozek, John S., to Continental Can Co., Inc. Pull tab for a can or the like. 200,883, 4-13-65, Cl. D58-26.
- Bozek, John S., and J. Simpson, to Continental Can Co., Inc. Pull tab for a container or the like. 201,647, 7-13-65, Cl. D58-26.
- Bradbury, Roy R., II: See—
Beck, George A., and Bradbury. 201,281.
- Bradley, Arthur E. Building. 203,158, 12-14-65, Cl. D13-1.
- Bradley, David E., Jr. Amusement vehicle. 200,110, 1-19-65, Cl. D34-15.
- Bradov, Nick W. Child's stroller or similar article. 200,305, 2-16-65, Cl. D14-14.
- Brady, Francis A. Belt. 202,867, 11-16-65, Cl. D3-10.
- Bradshaw, Franklin C., and T. M. Smith. Battery charger. 201,084, 5-11-65, Cl. D26-15.
- Brady, Forrest C. Combined display and dispensing stand. 200,830, 4-6-65, Cl. D80-10.
- Brady Mfg. Corp.: See—
Erp, Erwin J. 201,029.
- Branch, William C.: See—
Booth, Jack J., and Branch. 203,150.
- Brand, Lawrence H. Ice cube tray. 202,838, 11-9-65, Cl. D67-3.
- Brandoll, Raymond A., to Worthington Corp. Flexible drive coupling. 200,665, 3-23-65, Cl. D55-1.
- Brassaw, Alden J.: See—
Weller, Carl E., Fegley, and Brassaw. 201,019.
- Braun, Edmund R. Marble shooter or the like. 201,692, 7-20-65, Cl. D34-15.
- Braun, Samuel, to B.C.N. Design Products Inc. Display box. 201,645, 7-13-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 201,844, 8-3-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 201,923, 8-10-65, Cl. D58-12.6.
- Braun, Samuel. Box for a desk set. 201,924, 8-10-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 202,446, 9-28-65, Cl. D58-12.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 202,449, 9-28-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 202,450, 9-28-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 202,935, 11-16-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 202,936, 11-16-65, Cl. D58-12.7.
- Braun, Samuel, to B.C.N. Design Products, Inc. Display box. 203,137, 12-7-65, Cl. D58-12.7.
- Bravo, Joel W. Photographic processing apparatus. 200,449, 2-23-65, Cl. D61-1.
- Brearely Co., The: See—
Rhoades, Nolan K. 201,636.
- Breidenich, Richard H., and B. N. Smith, to General Motors Corp. Vehicle. 202,179, 9-7-65, Cl. D14-3.
- Brendgord, Thomas, to North Atlantic Industries, Inc. Control knob. 202,272, 9-14-65, Cl. D26-13.
- Brendgord, Thomas, to North Atlantic Industries, Inc. Control knob. 202,273, 9-14-65, Cl. D26-13.
- Brennan, Frederick S., to Simplicity Mfg. Co. Snow blower. 201,287, 6-8-65, Cl. D35-2.
- Brennesholtz, Aaron H., to E. I. du Pont de Nemours and Co. Toothbrush. 200,395, 2-23-65, Cl. D9-2.
- Brentrup, Robert C., to General Motors Corp. Thermostat housing. 202,293, 9-14-65, Cl. D52-7.
- Bretford Mfg., Inc.: See—
Genger, Horst. 201,600.
Petrick, Edward J. 203,144.
- Breuer Electric Mfg. Co.: See—
Medley, Richard C. 200,526.
Medley, Richard C. 200,760.
- Brew, Richard D., and Co., Inc.: See—
Hayes, Clifton E. 202,466.
- Briar, Jack E.: See—
Talge, Henry J., and Briar. 201,931.
Talge, Henry J., and Briar. 201,932.
- Brickman, Harold: See—
Parsell, Kendrick T., and Brickman. 201,115.
- Briddell, Charles D., Inc.: See—
Richmond, Colin B., II. 201,574.
- Briggin, Edward: See—
Katzman, Lawrence, Briggin, Stolarz, and D'Elia. 201,721.
- Briggs, Eugene C., to Master Consolidated, Inc. Portable heater. 201,165, 5-18-65, Cl. D81-10.
- Bright, Barney, to Julius Blum & Co., Inc. Grillework for trellises, room dividers or the like. 200,351, 2-16-65, Cl. D54-2.
- Bright Star Industries, Inc.: See—
Frost, Theodore. 202,642.
- Brill, Harry M., to N. and L. Rosasco, and N. Rosasco, Jr., a co-partnership, doing business as Golf Co. Golf club head or the like. 202,358, 9-21-65, Cl. D34-5.
- Brillante, George F. Paper-roll storage container. 201,099, 5-11-65, Cl. D52-2.
- Briskin, J., Inc.: See—
Davis, John E. 200,187.
- Britton Corp., The: See—
Stolarz, Edward M. 201,486.
- Brix, Robert E.: See—
Stuepfnagel, Thomas R., Brix, Hyslop, Hunt, and Price. 200,238.
- Broche, Robert F.: See—
Garneau, John P., and Broche. 202,697.
- Brocken, Karl, to Anfinson Plastic Molding Inc. Combined container and dispenser. 200,018, 1-5-65, Cl. D58-17.
- Brocken, Karl, to Anfinson Plastic Molding, Inc. Combined handle and pouring spout. 203,211, 12-14-65, Cl. D44-21.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 201,601, 7-6-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,086, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,087, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,088, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,089, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,090, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,091, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,092, 8-24-65, Cl. D87-3.
- Broderick, Virginia, to Consoweld Corp. Plastic sheet material or the like. 202,683, 10-26-65, Cl. D87-3.
- Brodick, Thomas P. Hood mounted air actuated automotive speedometer, or a similar article. 203,068, 11-30-65, Cl. D52-6.
- Brody, Harvey, to Norve, Inc. Dispenser cap and spout for liquids. 200,364, 2-16-65, Cl. 58-26.
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- Ginat, Jonathan, to Maurice Duchin Creations, Inc. Foldable desk. 200,911, 4-20-65, Cl. D33-7.
- Ginat, Jonathan, to Maurice Duchin Creations, Inc. Support stand for a bed spread. 203,119, 12-7-65, Cl. D33-3.
- Gindoff, Martin, to Tensor Corp. Portable incandescent lamp. 202,919, 11-16-65, Cl. D48-20.
- Gingher, Carl E. Clothes hanger. 201,855, 8-3-65, Cl. D80-8.
- Gingold, Natalie M. Combined seat, blackboard and toy holder for a child. 201,077, 5-11-65, Cl. D15-1.
- Glamorene, Inc.: See—
- Federman, Murray. 203,366.
- Glantz, Milton, 1/2 to S. N. Glantz. Carrying bag for a bowling ball or similar article. 202,093, 8-24-65, Cl. D87-5.
- Glantz, Samuel N.: See—
- Glantz, Milton. 202,093.
- Glass, Henry P., to Welded Products, Inc. Suana stove. 200,227, 2-2-65, Cl. D81-20.
- Glass, Henry P., to Contour Chair-Lounge Co., Inc. Chair. 201,276, 6-8-65, Cl. D15-11.
- Glass, Marvin, & Associates: See—
- Glass, Marvin I., and McFarland. 202,363.
- Glass, Marvin I., and McFarland. 202,905.
- Glass, Marvin I., and McFarland. 202,907.
- Glass, Marvin I., and N. T. McFarland, to Marvin Glass & Associates. Vehicle. 202,363, 9-21-65, Cl. D34-15.
- Glass, Marvin I., and N. T. McFarland, to Marvin Glass & Associates. Toy vehicle. 202,905, 11-16-65, Cl. D34-15.
- Glass, Marvin I., and N. T. McFarland, to Marvin Glass & Associates. Toy vehicle. 202,907, 11-16-65, Cl. D34-15.
- Glenn, Eric: See—
- Heisler, Jerome S., Starr, Liebertz, and Glenn. 200,803.
- Glimes, Carl R., to Sarong, Inc. Girdle. 201,436, 6-22-65, Cl. D20-2.
- Glimes, Carl R., to Sarong, Inc. Girdle. 201,620, 7-13-65, Cl. D20-2.
- Globe Valve Corp.: See—
- Mox, Dana W. 200,522.
- Glover, Anthony D. Desk. 201,137, 5-18-65, Cl. D33-7.
- Glover, Anthony D. Combined table and multiple student booth unit. 202,790, 11-9-65, Cl. D33-11.
- Gluck, Seymour M. Ash tray. 200,383, 2-16-65, Cl. D85-2.
- Glutz-Blotzheim, V., Nachfolger A.G.: See—
- Frech, Hans. 201,597.
- Goda, George G. Extension bracket. 202,817, 11-9-65, Cl. D54-13.
- Goldberg, Samuel. Shoe. 201,863, 8-10-65, Cl. D7-5.
- Golden, Harry, to Ideas For Auto & Bike Specialties, Inc. Pedal for velocipedes. 200,087, 1-12-65, Cl. D90-14.
- Golden, Harry, to Ideas For Auto & Bike Specialties, Inc. Ornament for fenders and hoods of miniature automobiles. 200,769, 4-6-65, Cl. D14-6.
- Golden, Harry, to Ideas For Auto & Bike Specialties, Inc. Ornament for fenders and hoods of miniature automobiles. 202,031, 8-24-65, Cl. D14-18.
- Golden, Harry, to Ideas For Auto & Bike Specialties, Inc. Toy manifold exhaust for toy wheeled vehicles. 202,638, 10-26-65, Cl. D34-15.
- Golden, Sidney, to A. Uvezian. Pin clip. 201,698, 7-20-65, Cl. D45-19.
- Goldin, Donald. Clothes hanger. 200,942, 4-20-65, Cl. D80-8.
- Goldman, Ervin H. Handle. 202,682, 10-26-65, Cl. D87-2.

- Goldman, Sidney. Ornamental ceramic tile. 203,267, 12-21-65, Cl. D18-2.
- Goldsworthy, Brandt: *See*—
Wojciechowski, Francis X., and Goldsworthy. 200,986.
- Golec, Edward J., to Sears Roebuck and Co. Line guide for fishing rods. 200,780, 4-6-65, Cl. D31-4.
- Golec, Edward J., to Sears Roebuck and Co. Line guide for fishing rods. 200,782, 4-6-65, Cl. D31-4.
- Golf Co.: *See*—
Brill, Harry M. 202,358.
- Gomez, Emil J., Jr. Motorcycle fairing. 200,459, 2-23-65, Cl. D90-1.
- Gonshorek, Milton, to The International Silver Co. Fork or similar article of flatware. 202,574, 10-19-65, Cl. D54-12.
- Gooch, William C., to Hydra-Pull Corp. Combined trailer and electric cable stringer. 202,336, 9-21-65, Cl. D14-3.
- Gooding, Elwyn R., to Ex-Cell-O Corp. Bottle. 200,932, 4-20-65, Cl. D58-6.
- Gooding, Elwyn R., to Ex-Cell-O Corp. Bottle. 202,445, 9-28-65, Cl. D58-6.
- Goodrich, B. F., Co., The: *See*—
Evans, Raymond W., Jr. 202,862.
Floria, James D. 202,254.
Hoehne, George C. 203,033.
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- Goodrich, Elvin R. Cleaning machine for vehicles or the like. 202,810, 11-9-65, Cl. D49-2.
- Goodrich, Verne F. Architectural sandwich panel. 199,970, 1-5-65, Cl. D13-1.
- Gordon, Herbert L., to Monroe Auto Equipment Co. Shock absorber. 200,572, 3-16-65, Cl. D14-25.
- Gordon, Julian D., to Jet Spray Cooler, Inc. Beverage dispenser. 202,023, 8-24-65, Cl. D2-3.
- Gore, Fred M., to J. A. Green. Exerciser or the like. 202,202, 8-7-65, Cl. D34-5.
- Gorham Corp.: *See*—
Forman, Howard L. 200,483.
Gavette, Richard C. 201,046.
- Gorton, George, Machine Co.: *See*—
Gundersen, Allen D. 201,389.
- Gossweiler, Earl W., to Federal Sign and Signal Corp. Combined warning light and siren for emergency vehicles. 203,352, 12-28-65, Cl. D48-32.
- Gossweiler, Earl W., to Federal Sign and Signal Corp. Combined warning light and sign for emergency vehicles. 200,345, 2-16-65, Cl. D48-32.
- Gould, George J. Turtle raceway. 201,450, 6-22-65, Cl. D34-15.
- Gould, Jerome, to United States Borax & Chemical Corp. Dispensing container for powdered material. 200,019, 1-5-65, Cl. D58-17.
- Gould, Jerome, to A & W Root Beer Co. Store front. 200,847, 4-13-65, Cl. D13-1.
- Gould, Jerome, to A & W Root Beer Co. Floor, wall, and service unit for a store interior. 202,545, 10-19-65, Cl. D13-1.
- Gould, Jerome, to Armour and Co. Bottle. 202,824, 11-9-65, Cl. D58-8.
- Gould, Melvin: *See*—
Weitzman, Milton J., and Gould. 203,116.
- Gould, Richard E., and J. W. Jacobs, to General Motors Corp. Cooking stove or the like. 200,518, 3-2-65, Cl. D81-25.
- Gould, Richard J. Racquet press cover. 202,903, 11-16-65, Cl. D34-5.
- Gouvea, Louis. Weed cutter. 203,125, 12-7-65, Cl. D39-1.
- Gower, Francis B., III, to Michael Reese Research Foundation. Incubator. 201,167, 5-18-65, Cl. D83-1.
- Goyke, Leonard F. Disposable medical tray. 202,599, 10-19-65, Cl. D83-1.
- Grace, W. R., & Co.: *See*—
Josephsen, Roy C., Tino, and Fulcher. 200,931.
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Petrone, Louis R., Stevens, and Tino. 202,666.
- Grady, George M., to Hupp Corp. Postless balustrade. 201,748, 7-27-65, Cl. D13-7.
- Graham, Dana L. Shutter or similar article. 200,764, 4-6-65, Cl. D13-1.
- Graham, Edward B., and H. E. Wall. Jug holder. 203,010, 11-23-65, Cl. D58-26.
- Graham, Edward S. Snow plow. 201,451, 6-22-65, Cl. D35-2.
- Graham, Elwood M., and J. N. Polivka, to M. H. Graham Corp. Food cutter. 201,602, 7-6-65, Cl. D89-1.
- Graham, John F.: *See*—
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Harkins, William H., and Graham. 201,680.
- Graham, Luell M., to Bell Aerospace Corp. Helicopter. 201,934, 8-10-65, Cl. D71-1.
- Graham, M. H., Corp.: *See*—
Graham, Elwood M., and Polivka. 201,602.
- Grannis, Russell L.: *See*—
Maitland, Leon R., and Grannis. 202,890.
- Grant, Foster, Co., Inc.: *See*—
Petitto, Albert C. 202,858.
- Grant, Roy H. Fish lure. 200,320, 2-16-65, Cl. D31-4.
- Grant, Stanley. Cosmetic vanity cabinet. 203,120, 12-7-65, Cl. D33-6.
- Grant, Stanley. Display cabinet. 203,122, 12-7-65, Cl. D33-19.
- Grant, Ulysses S. V. Counter top mounting for built-in toaster. 201,415, 6-15-65, Cl. D81-10.
- Graser, Clarence F.: *See*—
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- Graser, Clarence F., and R. V. Jones, to International Business Machines Corp. Indicator panel. 200,468, 3-2-65, Cl. D26-5.
- Graser, Clarence F., and W. S. Sheppley, Jr., to International Business Machines Corp. Computer console. 200,469, 3-2-65, Cl. D26-5.
- Graser, Clarence F., and R. V. Jones, to International Business Machines Corp. Cabinet for a tape system. 202,553, 10-19-65, Cl. D26-5.
- Grasmehr, Donald W., to The Tappan Co. Control console for faucets and the like. 202,407, 9-21-65, Cl. D91-3.
- Gray Mfg. Co., The: *See*—
Yang, Peter Q. 202,044.
- Grebe, John J. Aircraft. 200,743, 3-30-65, Cl. D71-1.
- Grebe, John J. Aircraft. 200,744, 3-30-65, Cl. D71-1.
- Grebe, John J. Aircraft. 200,825, 4-6-65, Cl. D71-1.
- Green, Edward H. Sprayhead for a pressurized package. 200,125, 1-19-65, Cl. D58-26.
- Green, Hiram J. Writing instrument holder. 201,479, 6-22-65, Cl. D74-21.
- Green, Jules A.: *See*—
Gore, Fred M. 202,202.
- Greenberg, Harry, and C. C. Y. Liu, to Channel Master Corp. Antenna array or similar article. 202,624, 10-26-65, Cl. D26-14.
- Greenberg, Leonard E. Snow vehicle. 201,815, 8-3-65, Cl. D34-15.
- Greene, Charles V. Combined can holder and pitcher. 202,645, 10-26-65, Cl. D44-21.
- Greene, Harry R., to West Coast Yacht Co. Boat. 202,455, 9-28-65, Cl. D71-1.
- Greene, Reginald E., to Lockheed Aircraft Corp. Combined oscillograph record developer and scanning table or the like. 200,855, 4-13-65, Cl. D26-5.
- Greenhaw, Edmond B., to American Electric Mfg. Corp. Luminaire. 203,217, 12-14-65, Cl. D48-31.
- Greenview Mfg. Co.: *See*—
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- Greenwald, Harry, 1/2, each to L. Wolff, and H. Silbergliat. Door for vending machines or the like. 202,288, 9-14-65, Cl. D52-3.
- Greenwald, Harry, 1/2, each to L. Wolff and H. Silbergliat. Door for vending machines or the like. 202,289, 9-14-65, Cl. D52-3.
- Greenwald, Harry, 1/2 to L. Wolff, and 1/2 to H. Silbergliat. Coin slide for vending machines or the like. 202,731, 11-2-65, Cl. D52-3.
- Greenwell, Joseph L. Plastic container for liquids. 202,744, 11-2-65, Cl. D58-17.
- Greenwood, Beatrice. Game board. 202,636, 10-26-65, Cl. D34-5.
- Greenwood, George B. Book end. 201,809, 8-3-65, Cl. D33-3.
- Greer, Kenneth A.: *See*—
McLean, James, Vogelsang, and Greer. 200,987.
- Greger, Richard W.: *See*—
De Puy, Ronald G., and Greger. 202,912.
- Gregory, Roland W. Cup. 203,054, 11-30-65, Cl. D44-9.
- Grey, Paul S. Door corner protector. 201,008, 5-4-65, Cl. D10-7.
- Gribbens, William J., to Plastics, Inc. Portable serving unit. 202,493, 10-12-65, Cl. D14-3.
- Grinnell, Charles W., M. A. Williamson, Jr., and A. F. Cleveland, to Colony Mfg. Co., Inc. Distress signal for automobiles. 201,227, 5-25-65, Cl. D72-1.
- Grinyer, Edward G., to The Hoover Co. Suction cleaner. 200,094, 1-19-65, Cl. D9-2.
- Groff, Emory L. Sponge rack. 203,058, 11-30-65, Cl. D44-29.
- Groff, Emory L., Jr. Bottle. 200,357, 2-16-65, Cl. D58-5.
- Grogel, Merrill A., to Reynolds Metals Co. Pie plate. 200,724, 3-30-65, Cl. D44-1.
- Gross, Harold I., to National Silver Co. Gas igniter gun. 203,349, 12-28-65, Cl. D48-27.
- Gross, William M., to Nannette Mfg. Co., Inc. Clothes hanger. 202,846, 11-9-65, Cl. D80-8.
- Grove, John J., to Facade, Inc. Door pull. 201,009, 5-4-65, Cl. D10-8.
- Grove, Marvin H. Gate valve body. 203,098, 11-30-65, Cl. D91-3.

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- Groves, John A. Portable heater. 201,113, 5-11-65, Cl. D81-20.
- Grube, Clifford E., to Associated Mills, Inc. Combined heater and massager. 203,092, 11-30-65, Cl. D83-1.
- Grunwald, Frank M., to General Electric Co. Television receiver. 200,219, 2-2-65, Cl. D56-4.
- Grunwald, Frank M., to General Electric Co. Phonograph or the like. 201,524, 6-29-65, Cl. D56-4.
- Grusin, Gerald M., to Mohawk Metal Products Corp. Tool box or similar article. 201,741, 7-20-65, Cl. D87-5.
- Gruska, Casimir F.: See—
- Munson, Austin H., and Gruska. 201,253.
- Gruska, Casimir F., to Ekco Products Co. Can opener. 201,883, 8-10-65, Cl. D22-2.
- Gruska, Casimir F., to Ekco Products Co. Tool blade for culinary tongs or the like. 203,209, 12-14-65, Cl. D44-4.
- Guberman, Sam, to Maidenform, Inc. Brassiere. 202,499, 10-12-65, Cl. D20-4.
- Guerlain, Inc.: See—
- Guerlain, Jean-Pierre. 200,498.
- Guerlain, Jean-Pierre, to Guerlain, Inc. Bottle. 200,498, 3-2-65, Cl. D58-8.
- Guffy, Willie E. Angle level. 200,663, 3-23-65, Cl. D52-6.
- Gullbert, Edward J.: See—
- Schwartz, Sol, and Gullbert. 201,522.
- Gullmot, Jacques. Pharmaceutical tablets. 202,467, 10-5-65, Cl. D16-3.
- Gunderson, Allen D., to George Gorton Machine Co. Vertical milling machine. 201,389, 6-15-65, Cl. D54-14.
- Gusdorf, Walter. Television cart. 200,321, 2-16-65, Cl. D33-14.
- Gusdorf, Walter. Television cart. 200,476, 3-2-65, Cl. D33-14.
- Gusdorf, Walter. Display cart. 202,885, 11-16-65, Cl. D14-3.
- Gust, Jimmy A. Snow sled. 201,626, 7-13-65, Cl. D34-15.
- Guthrie, Mancel F. Gameboard table. 199,986, 1-5-65, Cl. D34-5.
- Gwinn, M. Benjamin: See—
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- Haas, Betty L.: See—
- Haas, Lawrence W. and B. L. 200,052.
- Haas, Lawrence W. and B. L. Artificial Christmas tree decoration or similar article. 200,052, 1-12-65, Cl. D29-1.
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- Haase, Wilbert W., Jr., R. G. Reichle, and J. E. Wennerberg, Jr., to American Wilbert Vault Corp. Burial vault cover forming unit. 202,815, 11-9-65, Cl. D54-8.
- Hachten, Boyd J., A. D. Sterges, and C. G. Brown, to Purex Corp., Ltd. Jug. 200,441, 2-23-65, Cl. D58-5.
- Haeger Potteries, Inc.: See—
- Kaelke, Edwin K. 201,444.
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- Haga, Henry G., to General Motors Corp. Wheel cover. 202,034, 8-24-65, Cl. D14-30.
- Hager, Verna G. Maternity dress. 202,165, 8-7-65, Cl. D3-26.
- Hagglund, Mary. Diaper bag. 202,381, 9-21-65, Cl. D58-2.
- Hagin, Forest G. P. Game playing board. 202,201, 8-7-65, Cl. D34-5.
- Hagle, Kenneth J., Sr., and J. J. Trogan. Display stand. 202,677, 10-26-65, Cl. D80-9.
- Hahn, Henry R., to Infranor of North America, Inc. Floodlight or similar article. 202,727, 11-2-65, Cl. D48-20.
- Hahn, Le Roy. Shoe heel. 201,002, 5-4-65, Cl. D7-5.
- Haffey, Charles P. Dish. 200,867, 4-13-65, Cl. D44-10.
- Haines, Donald G. Housing for a phonograph cartridge. 201,365, 6-15-65, Cl. D26-14.
- Hakim, Albert S. Shoelace knot retainer. 200,394, 2-23-65, Cl. D7-6.
- Halaby, Kenneth S.: See—
- Halaby, Samuel A., Sr., and K. S., and S. A. Halaby, Jr. 202,986.
- Halaby, Samuel, Inc.: See—
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- Halaby, Samuel A., Sr., and K. S., and S. A. Halaby, Jr. 202,986.
- Halaby, Samuel A., Sr., and K. S., and S. A. Halaby, Jr., to Samuel Halaby, Inc. Container for insecticide sprayers or similar articles. 202,986, 11-23-65, Cl. D31-3.
- Halber, Leon H.: See—
- Lesser, Jack, and Halber. 200,311.
- Hall, Basil, to A.P.V. Paramount Ltd. Conveyor link. 202,814, 11-9-65, Cl. D54-3.
- Hall, Horace N., to E. J. Lavino and Co. Refractory brick. 201,779, 7-27-65, Cl. D81-25.
- Hall Paul H.: See—
- Cooke, Nelson M., and Hall. 202,700.
- Hall, Richard B., to Dominion Electric Corp. Cabinet for electric toothbrushes. 200,523, 3-9-65, Cl. D4-3.
- Hall, Richard B., to Dominion Electric Corp. Holder for electrically powered knife or the like. 201,145, 5-18-65, Cl. D44-29.
- Hall, Richard B., to Dominion Electric Corp. Food mixer or the like. 201,290, 6-8-65, Cl. D44-1.
- Hall, Richard B., to Dominion Electric Corp. Electric knife handle. 201,437, 6-22-65, Cl. D22-3.
- Hall, Walter J. Rotary slide tray. 202,141, 8-31-65, Cl. D81-1.
- Hall, William G., to Jones Shutter Products, Inc. Collapsible shelter. 202,028, 8-24-65, Cl. D13-1.
- Hallett Mfg. Co.: See—
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- Halligan, James C., to Becton, Dickinson and Co. Suction catheter flow regulator or similar article. 200,641, 3-23-65, Cl. D16-1.
- Hallock, Edward C. Facing plate. 199,969, 1-5-65, Cl. D13-1.
- Halls, Lawrence M.: See—
- Kermes, Conatantine J., Koch, and Halls. 200,426.
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- Hamilton, Donald A., to Pharmaseal Laboratories. Tray for medical equipment. 202,013, 8-17-65, D83-1.
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- Fenner, Robert M., and Hamilton. 202,714.
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- Schaefer, George L., Amthor, Katzfey, and Kanitz. 200,583.
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- Hamlett, Sidney J., to White Consolidated Industries, Inc. Sewing machine or similar article. 203,310, 12-21-65, Cl. D70-1.
- Hamm, Opal G. Shampoo dispensing brush. 200,761, 4-6-65, Cl. D9-2.
- Hammer Food Products Corp.: See—
- Hauser, Jules L. 201,840.
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- Bertschinger, Jacques. 203,344.
- Hammes, Josef J., to B. W. Lowell. Baffle for a combination loud speaker, ventilator, and lighting fixture. 200,824, 4-6-65, Cl. D62-4.
- Hammesfahr, Frederic W., to J. T. Baker Chemical Co. Handle for accommodating pressurized cylinder closures. 201,962, 8-17-65, D16-2.
- Han, Samuel D. Pen clip. 200,746, 3-30-65, Cl. D74-2.
- Hance, Jewel B. Restaurant. 202,100, 8-31-65, Cl. D13-1.
- Hance, Jewel B. Restaurant sign. 202,164, 9-7-65, Cl. D1-12.
- Hancock, David. Food tray. 200,249, 2-9-65, Cl. D44-10.
- Hancock, David. Covered food tray. 200,250, 2-9-65, Cl. D44-10.
- Hancock, David, to Applied Research and Development Corp. Food tray. 201,899, 8-10-65, Cl. D44-10.
- Handal, Victor B., & Bro., Inc.: See—
- Florea, Stanley R. 200,998.
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- Handley, Robert D. 200,303.
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- Handley, Robert D., to Handley Industries, Inc. Dolly. 200,303, 2-16-65, Cl. D14-3.
- Handley, Robert D., to Handley Industries, Inc. Sign. 202,866, 11-16-65, Cl. D1-2.
- Hane, Edgar. Table fan. 202,232, 9-7-65, Cl. D62-4.
- Hango, Joseph W. Jug. 200,930, 4-20-65, Cl. D58-5.
- Hankins, John W. Game board. 200,323, 2-16-65, Cl. D34-5.
- Hankins, John W. Game board. 200,324, 2-16-65, Cl. D34-5.
- Hanna, Joseph A. Infra-red warmer for cellophane wrapped food. 200,137, 1-19-65, Cl. D81-10.
- Hansen, David E., to Eastman Kodak Co. Combined slide projector and slide tray. 201,106, 5-11-65, Cl. D61-1.
- Hansen, David E., to Eastman Kodak Co. Photographic camera. 202,667, 10-26-65, Cl. D61-1.
- Hansen, David E., to Eastman Kodak Co. Carrying case for a slide projector. 202,861, 11-9-65, Cl. D87-5.
- Hanson, John G. Hanger for apparel. 202,954, 11-16-65, Cl. D80-8.
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- Johnson, Harold D., Aero-Dyne Corp. Aerosol fogger. 200,937, 4-20-65, Cl. D62-2.
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- Johnson, Martin A. Dispenser for adding chemicals to toilet fixtures or the like. 201,797, 8-3-65, Cl. D16-2.
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- Jones, Robert W., to Bigelow-Liptak Corp. Refractory tile. 202,012, 8-17-65, D81-25.
- Jones, Ted O., to Hydro Marine Inc. Catamaran boat. 202,947, 11-16-65, Cl. D71-1.
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- Montesano, Mario A. Cast coping stone. 202,261, 9-14-65, Cl. D13-1.
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- Moore, David G., to International Business Machines Corp. Random access data storage machine. 202,621, 10-26-65, Cl. D26-5.
- Moore, Donald A., to International Business Machines Corp. Combined card reader, card printer and card punch machine or similar article. 200,708, 3-30-65, Cl. D26-5.
- Moore, Donald A., to International Business Machines Corp. Electronic computer console or similar article. 202,189, 9-7-65, Cl. D26-5.
- Moore, Glenn E., to Dover Corp. Dispensing nozzle guard. 202,538, 10-12-65, Cl. D91-1.
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- Moore, Lawrence A., J. E. Peter, and H. M. Broyles, to Beloit Iron Works. Calendar stack or similar article. 200,598, 3-16-65, Cl. D55-1.
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- Picot, Bernard T. E., to Christian Dior Perfumes Corp. Bottle closure. 201,401, 6-15-65, Cl. D58—26.
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- Pietrowiak, Mary. Holder for sewing articles. 203,025, 11-30-65, Cl. D3-19.
- Pihan, Norman W. Milk bottle holder. 202,913, 11-16-65, Cl. D44-21.
- Piker, Herbert M., to The Hamilton-Skotch Corp. Insulated jug. 200,979, 4-27-65, Cl. D58-17.
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- Pinke, August H., and W. E. Petersen, to H. D. Hudson Mfg. Co. Sprayer pump handle or similar article. 201,624, 7-13-65, Cl. D31-3.
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- Quartararo, Philip J. Hole shear or the like for repairing sewn-in bicycle tube tires. 202,999, 11-23-65, Cl. D54-13.
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- Wilton, Henry T., and J. T. Armbruster, to American Optical Co. Overhead projector. 201,929, 8-10-65, Cl. D61-1.
- Wince, Veal S., to Holophane Co., Inc. Refractor for lighting fixtures and the like. 201,986, 8-17-65, Cl. D48-16.
- Wince, Veal S., to Holophane Co., Inc. Luminaire. 202,803, 11-9-65, Cl. D48-4.
- Wince, Veal S., and C. X. Meyer, 1/2 to Holophane Co., Inc., and 1/2 to Day-Brite Lighting, Inc. Lighting fixture. 201,093, 6-11-65, Cl. D48-23.
- Wince, Veal S., and C. X. Meyer, 1/2 to Holophane Co., Inc., and 1/2 to Emerson Electric Mfg. Co. Refractor for lighting fixtures and the like. 202,871, 9-21-65, Cl. D48-16.
- Winger, Joseph A., to Texaco Inc. Compressed air supply cart or similar article. 203,221, 12-14-65, Cl. D52-2.

- Winger, Joseph A., M. R. Cothorn, and M. J. Gammill, to Texaco Inc. Service station display cabinet or similar article. 201,534, 6-29-65, Cl. D80-11.
- Winger, Joseph A., M. R. Cothorn, and M. J. Gammill, to Texaco Inc. Service station display cabinet or similar article. 201,535, 6-29-65, Cl. D80-11.
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- Winkhaus, Wolfgang, to Aug. Winkhaus Schloss- und Baubeschlagfabrik, Firma. Bicycle bell. 202,672, 10-26-65, Cl. D72-1.
- Winn, Wilfred J. Hank yarn holder. 200,253, 2-9-65, Cl. D47-5.
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- Wise, Marcus S. Combined canopy and multiple seating unit for golfers. 200,851, 4-13-65, Cl. D15-1.
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- Woodard, Gordon K. Hang up soap bar or similar article. 201,595, 7-6-65, Cl. D73-1.
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- Moore, Ralph S. Rose plant. 2,525, 6-1-65, Cl. 1.
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- Motzkau, Henry W., to Yoder Brothers, Inc. Azalea plant. 2,495, 4-20-65, Cl. 55.
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- Tiet, Horace M. Fuchsia plant. 2,468, 2-2-65, Cl. 84.
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- Zombory, Sophia B.: See—
- Zombory, William, and S. B. 2,531.
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LIST OF DISCLAIMERS AND DEDICATIONS

- Abraham, Edward Penley, and Guy Geoffrey Frederick Newton, Oxford, and Clifford William Hale, Clevedon, England. Disclaimer filed June 14, 1965, by the assignee, National Research Development Corporation. No. 3,049,541; v. 818; p. 411.
- Ambrose, Frederick S., Tucson, Ariz. Disclaimer filed Nov. 13, 1964, by the assignee, Gallis Manufacturing Company. No. 3,119,275; v. 812; p. 1.
- Babcock, John C., Portage Township, Kalamazoo County, and J. Allan Campbell and John A. Hogg, Kalamazoo Township, Kalamazoo County, Mich. Disclaimer filed May 20, 1965, by the inventors; the assignee, The Upjohn Company, assenting. No. 2,838,496; v. 817; p. 1241.
- Baizer, Manuel M., St. Louis, Mo. Disclaimer filed June 28, 1965, by the assignee, Monsanto Company. No. 3,198,746; v. 818; p. 1204.
- Bensky, Lowell S., Levittown, Pa., and David L. Nettleton, Haddonfield, N.J. Disclaimer filed May 26, 1965, by the assignee, Radio Corporation of America. No. 3,016,194; v. 817; p. 1615.
- Blanchard, Andre, Houston, Tex. Disclaimer filed Jan. 5, 1965, by the assignee, Schlumberger Well Surveying Corporation. No. 2,938,586; v. 813; p. 361.
- Bowers, Albert, Mexico City, Mexico. Disclaimer filed Sept. 7, 1965, by the assignee, Syntex Corporation. No. 3,065,228; v. 820; p. 2.
- Boyles, Robert L., Wayland, Mass. Disclaimer filed Jan. 28, 1965, by the assignee, General Electric Company. No. 3,085,136; v. 815; p. 1.
- Braatz, Douglas R., Shawano, and William C. Winder, Madison, Wis. Disclaimer filed May 14, 1965, by the inventors. No. 3,046,144; v. 817; p. 819.
- Britten, Cecil A., and Adrian St. J. Bowie, San Jose, Calif. Disclaimer filed May 19, 1965, by the assignee, FMC Corporation. No. 2,784,521; v. 817; p. 423.
- Caldwell, John R., Kingsport, Tenn. Disclaimer filed Feb. 1, 1965, by the assignee, Eastman Kodak Company. No. 2,744,089; v. 814; p. 356.
- Caldwell, Richard L., Dallas, Tex., Gustave L. Hoehn, Jr., Palo Alto, Calif., and Tom W. Bonner, Houston, Tex. Disclaimer filed Oct. 16, 1964, by the assignee, Socony Mobil Oil Company, Inc. No. 2,934,652; v. 810; p. 597.
- Campbell, J. Allan, Kalamazoo Township, Kalamazoo County, Raymond L. Pederson, Kalamazoo, John C. Babcock, Portage Township, Kalamazoo County, and John A. Hogg, Kalamazoo Township, Kalamazoo County, Mich. Disclaimer filed May 20, 1965, by the inventors; the assignee, The Upjohn Company, assenting. No. 2,838,500; v. 817; p. 1241.
- Campbell, J. Allan, Kalamazoo Township, Kalamazoo County, John C. Babcock, Portage Township, Kalamazoo County, and John A. Hogg, Kalamazoo Township, Kalamazoo County, Mich. Disclaimer filed May 20, 1965, by the inventors; the assignee, The Upjohn Company, assenting. No. 2,838,528; v. 817; p. 1241.
- Carruthers, Thomas F., South Charleston, W. Va. Disclaimer filed Feb. 15, 1965, by the assignee, Union Carbide Corporation. No. 2,929,827; v. 815; p. 1.
- Chisholm, Hamilton C., Orinda, and Henry Y. Fujishige, Berkeley, Calif. Disclaimer filed May 25, 1965, by the assignee, Beckman Instruments, Inc. No. 3,054,001; v. 818; p. 4.
- Christofferson, James, West Newbury, Mass. Disclaimer filed Mar. 8, 1965, by the assignee, High Voltage Engineering Corporation. No. 3,184,621; v. 816; p. 797.
- Clynes, Manfred E., Orangeburg, N.Y. Disclaimer filed July 7, 1965, by the assignee, Technical Measurement Corporation. No. 3,087,487; v. 817; p. 819.
- Coyne, Donald M., Ponca City, Okla. Disclaimer filed Mar. 18, 1965, by the assignee, Continental Oil Company. No. 2,953,603; v. 815; p. 821.
- Crosby, James S., Jr., and Francis Stern-Montagny, Poughkeepsie, N.Y. Disclaimer filed Mar. 18, 1965, by the assignee, International Business Machines Corporation. No. 3,040,299; v. 815; p. 821.
- Davis, John H., Fort Worth, Tex. Disclaimer filed May 25, 1965, by the assignee, General Dynamics Corporation. No. 3,186,203; v. 818; p. 791.
- Derse, Phillip H., and Lloyd W. Hein, Madison, and Karl Paul Link, Middleton, Wis. Disclaimer and dedication filed June 23, 1965, by the assignee, Wisconsin Alumni Research Foundation. No. 3,113,071; v. 818; p. 1204.
- D'Evelyns, Claude, Chatswood, Australia. Disclaimer filed Apr. 30, 1965, by the inventor. No. 3,160,257; v. 816; p. 401.
- Ehlert, Kenneth W., Lafayette, and Ferdinand Voelker III, Concord, Calif. Disclaimer filed Mar. 8, 1965, by the assignee, United States of America as represented by the United States Atomic Energy Commission. No. 3,014,154; v. 814; p. 1.
- Engel, Walter, Nurnberg, Germany. Disclaimer filed Aug. 26, 1965, by the inventor; the assignee, Siemens-Schuckertwerke Aktiengesellschaft, consenting. No. 3,090,926; v. 821; p. 418.
- Ents, Gerhard B., Oklahoma City, Okla. Disclaimer filed Feb. 23, 1965, by the assignee, Floyd W. Trindle. No. 2,762,359; v. 815; p. 1.
- Ferris, Ernest A., Downers Grove, and Robert J. Curran, Chicago, Ill. Disclaimer filed June 10, 1965, by the assignee, Borg-Warner Corporation, the inventors assenting. No. 3,011,606; v. 816; p. 797.
- Flynn, Francis W., West Boylston, Mass. Disclaimer filed Mar. 4, 1965, by the assignee, Geo. S. Harwood & Son, Inc. No. 3,119,525; v. 815; p. 821.
- Geiger, Kenneth H., and John Compton, London, Ontario, Canada. Disclaimer filed July 12, 1965, by the assignee, John Labatt Limited. No. 2,967,107; v. 816; p. 819.
- Gilson, Paul R., West Covina, Calif. Disclaimer filed June 21, 1965, by the assignee, Burroughs Corporation. No. 2,952,415; v. 818; p. 1204.
- Goodman, Clark, Boston, Mass. Disclaimer filed Sept. 16, 1965, by the assignee, Schlumberger Well Surveying Corp. No. 2,991,364; v. 819; p. 1338.
- Hagelthorn, George A., De Kalb County, Ga. Disclaimer filed July 29, 1965, by the assignee, Ingersoll-Rand Company. Re. 25,642; v. 819; p. 1338.
- Hajos, Eugene, Fort Lee, N.J. Disclaimer filed Jan. 28, 1965, by the inventor and assignee, Premier Laundry, Inc. No. 3,126,657; v. 814; p. 356.
- Harvey, Douglass C., Rochester, N.Y. Disclaimer filed Sept. 2, 1965, by the assignee, Eastman Kodak Company. No. 3,138,084; v. 819; p. 444.
- Hasseldine, Robert Neville, Dingley, England. Disclaimer filed Feb. 3, 1965, by the inventor. No. 3,083,237; v. 812; p. 815.
- Hennel, Anthony, Skokie, Ill. Disclaimer filed Mar. 24, 1965, by the assignee, Container Corporation of America. No. 3,075,734; v. 815; p. 1637.
- Herz, Josef E., and Josef Fried, New Brunswick, N.J. Disclaimer filed Mar. 5, 1965, by the assignee, Olin Mathieson Chemical Corporation. No. 2,842,568; v. 814; p. 713.
- Hignett, Travis P., Sheffield, Milton R. Siegel, Robert S. Meline, and Glenn M. Blouin, Florence, Ala. Disclaimer filed Oct. 13, 1964, by the assignee, Tennessee Valley Authority. No. 3,005,696; v. 810; p. 869.
- Hostettler, Fritz, Charleston, W. Va., and Donald M. Young, New York, N.Y. Disclaimer filed Feb. 15, 1965, by the inventors; the assignee, Union Carbide Corporation, assenting. No. 3,169,945; v. 815; p. 1.
- Huberty, Elmer J., Chicago, Ill. Disclaimer filed Dec. 14, 1964, by the assignee, Advance Transformer Co. No. 3,091,720; v. 812; p. 1295.
- Hutchison, Miller B., Jr., Robert F. O'Brien and Edgar S. Marvin, Rochester, N.Y. Disclaimer filed Feb. 5, 1965, by the assignee, Eastman Kodak Company. No. 2,989,441; v. 815; p. 821.
- Kameny, Stanley L., Woodland Hills, Calif. Dedication filed Apr. 8, 1965, by the assignee, The Bunker-Ramo Corporation. No. 3,187,321; v. 816; p. 1209.
- Kaplan, Martin, Collingswood, N.J. Disclaimer filed Oct. 13, 1964, by the assignee, Radio Corporation of America. No. 2,813,260; v. 810; p. 587.
- Kaye, Saul, Maple Heights, Ohio. Disclaimer filed June 30, 1965, by the assignee, Ben Venue Laboratories, Inc. No. 2,891,838; v. 818; p. 1204.
- Kennedy, Walter W., Rockford, Ill. Disclaimer filed Sept. 1, 1965, by the assignee, Barber-Colman Company. No. 3,126,811; v. 821; p. 418.
- Kerr, Donald R., Bucyrus, Ohio. Disclaimer filed May 24, 1965, by the assignee, Shunk Manufacturing Company, Inc. No. 2,968,368; v. 815; p. 1637.
- Kislan, Edward J., Pacoima, Hubert H. Hoeltje, Canoga Park, and Nell O. Regan, Glendale, Calif. Disclaimer filed Nov. 2, 1964, by the assignee of 33 1/3%, Collins Radio Company. No. 3,122,679; v. 811; p. 293.
- Kleine, Rudolph W., Milwaukee, Wis. Disclaimer filed Oct. 6, 1964, by the assignee, CRO Engineering Co. Inc. No. 3,035,946; v. 810; p. 2.
- Knowles, James, Bloomfield Hills, Mich. Disclaimer filed Jan. 25, 1965, by the inventor; the assignee, Ford Motor Company, consenting. No. 2,855,803; v. 814; p. 856.
- Knudson, Louis I., and John David Pfeiffer, Norwich, N.Y. Disclaimer filed Apr. 13, 1965, by the assignee, General Laboratory Associates, Inc. No. 2,963,620; v. 816; p. 1209.
- Koch, Robert B., and Ralph E. James, Jr., Reading, Pa. Disclaimer filed Apr. 26, 1965, by the assignee, The Polymer Corporation. No. 2,747,224; v. 816; p. 797.
- Kwiatk, Jack, Schenectady, N.Y. Disclaimer filed Oct. 9, 1964, by the assignee, General Electric Company. No. 3,184,758; v. 810; p. 587.

Le Clerc, Pierre Georges, Paris, France. Disclaimer filed Aug. 27, 1965, by the assignee, Compagnie de Saint-Gobain. No. 3,065,345; v. 819; p. 1338.

Leipold, Herbert O., South Bend, and Emil C. Evanchich, New Carlisle, Ind. Disclaimer filed Dec. 14, 1964, by the assignee, The Singer Company. No. 2,997,568; v. 812; p. 951.

McFeaters, Harry L., New Castle, Pa. Disclaimer filed June 9, 1965, by the assignee, Pennsylvania Engineering Corporation. No. 2,847,206; v. 818; p. 411.

Maler, Curtis E., Riverside, Halford E. Brockett, Lombard, and Ralph A. Larson, Chicago, Ill. Dedication filed June 8, 1965, by the assignee, Continental Can Company, Inc. No. 2,663,908; v. 817; p. 424.

Maler, Curtis E., Riverside, Halford E. Brockett, Lombard, and Ralph A. Larson, Chicago, Ill. Dedication filed June 8, 1965, by the assignee, Continental Can Company, Inc. No. 2,663,909; v. 817; p. 424.

Maler, Curtis E., Riverside, Halford E. Brockett, Lombard, and Ralph A. Larson, Chicago, Ill. Dedication filed June 8, 1965, by the assignee, Continental Can Company, Inc. No. 2,835,926; v. 817; p. 424.

Melvin, Donald K., Arlington Heights, Ill. Disclaimer filed Apr. 23, 1965, by the assignee, Automatic Electric Laboratories, Inc. No. 3,033,935; v. 816; p. 797.

Moser, Frank T., Allentown, Pa. Disclaimer filed Oct. 23, 1964, by the assignee, Mister Softee, Inc. No. 2,978,996; v. 811; p. 5.

Moser, Frank T., Easton, Pa. Disclaimer filed Oct. 23, 1964, by the assignee, Mister Softee, Inc. No. 3,019,615; v. 811; p. 5.

Muskat, Irving E., Miami, Fla. Disclaimer filed Mar. 30, 1965, by the inventor; the assignee, Sinclair Research, Inc., consenting. No. 3,178,395; v. 815; p. 1637.

Ohmart, Philip E., and Henry L. Cook, Jr., Cincinnati, Ohio. Disclaimer filed Dec. 4, 1964, by the assignee, The Ohmart Corporation. No. 3,070,692; v. 812; p. 643.

Omohundro, William A., Fairfield, Conn. Disclaimer filed Aug. 18, 1965, by the assignee, General Electric Company. No. 3,095,496; v. 818; p. 1204.

Orr, John Richard, Merchantville, N.J. Disclaimer filed Jan. 22, 1965, by the assignee, Radio Corporation of America. No. 2,874,277; v. 814; p. 356.

Pankove, Jacques I., Princeton, N.J. Disclaimer filed Nov. 9, 1964, by the assignee, Radio Corporation of America. No. 2,974,236; v. 811; p. 753.

Parker, Harry W., Bartlesville, Okla. Disclaimer filed Apr. 1, 1965, by the inventor; the assignee, Phillips Petroleum Company, concurring. No. 3,180,414; v. 816; p. 1.

Pederson, Raymond L., and Milton E. Herr, Kalamazoo, John C. Babcock, Portage Township, Kalamazoo County, and J. Allan Campbell and John A. Hogg, Kalamazoo, Mich. Disclaimer filed May 20, 1965, by the inventors; the assignee, The Upjohn Company, assenting. No. 2,838,492; v. 817; p. 1241.

Popoff, Ivan C., Ambler, Pa. Disclaimer filed Oct. 5, 1964, by the assignee, Pennsalt Chemicals Corporation. No. 3,138,571; v. 810; p. 2.

Reed, Karl G., Wayne, Pa. Disclaimer filed Mar. 5, 1965, by the assignee, Pennsalt Chemicals Corporation. No. 3,148,145; v. 815; p. 821.

Reed, Karl G., Wayne, Pa. Disclaimer filed June 9, 1965, by the assignee, Pennsalt Chemicals Corporation. No. 3,148,145; v. 818; p. 411.

Rood, William E., Jr., Phoenix, Ariz. Dedication filed May 5, 1965, by the inventor. No. 3,173,544; v. 815; p. 417.

Searamucci, Domer, Oklahoma City, Okla. Disclaimer filed Mar. 3, 1965, by the inventor. No. 3,055,632; v. 815; p. 821.

Seymour, Shaun A., New Holland, William Hobbs, Jr., Lancaster, and Daniel C. Heitshu, Shippensburg, Pa. Disclaimer filed Sept. 2, 1965, by the assignee, Sperry Rand Corporation. No. 3,129,851; v. 821; p. 1261.

Shea, William C., and William J. Pivacek, Elyria, Ohio. Disclaimer filed July 9, 1965, by the assignee, Mobiloid Inc. No. 3,072,437; v. 819; p. 443.

Shockley, William and Robert N. Noyce, Los Altos, Calif. Disclaimer filed Nov. 12, 1965, by the inventors; the assignee, International Telephone and Telegraph Corporation, assenting. No. 2,967,985; v. 821; p. 846.

Sjollema, Arjen, Leeuwarden, Netherlands. Disclaimer filed July 9, 1965, by the assignee, Coöperatieve Vereniging tot Bereiding van Melkproducten, trading under the style Coöperatieve Condensfabriek "Friesland." No. 2,953,458; v. 817; p. 1241.

Surratt, Julian H., Denton, N.C. Disclaimer filed May 26, 1965, by the assignee, Mopul, Inc. No. 2,716,876; v. 817; p. 1615.

Telser, Sidney and Walter R. Sassaman, Rochester, N.Y. Disclaimer filed Oct. 22, 1964, by the assignee, Magnefax Corporation. No. 3,019,714; v. 811; p. 293.

Wang, An and Ge Yao Chu, Lincoln, Mass. Disclaimer filed Jan. 22, 1965, by the assignee, Wang Laboratories, Inc. No. 3,015,806; v. 812; p. 1.

Willson, Corwin D., Flint, Mich. Disclaimer filed Nov. 9, 1964, by the inventor. No. 2,627,949; v. 811; p. 5.

Wooding, Walter H., Broomall, Royal David Thomas, Jr., Narbeth, and James E. Norcross, Media, Pa. Disclaimer filed Apr. 26, 1965, by the assignee, Arcos Corporation; the inventors assenting. No. 3,046,386; v. 816; p. 797.

Zolnik, Charles R., Plainview, N.Y. Disclaimer filed Apr. 15, 1965, by the assignee, Sperry Rand Corporation. No. 3,187,258; v. 816; p. 797.

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Andre, Noble, deceased, by Jean D. Andre, executrix, In re. 819 O.G. 931.

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NOTES CONCERNING USE OF THE CLASSIFICATION OF PATENTS LISTING AND RELATED REFERENCE PUBLICATIONS

In the index which follows, the subject of invention of each patent issued during 1965 is identified by the class and subclass numbers of the official U.S. Patent Office classification in which the patent was classified at the time of issue. The Index is arranged in numerical order by class numbers, which appear as bold-face entries centered in the columns, and thereunder, in similar order, by subclasses which appear in the numerals in the left hand half of the columns. There are 63,110 patent and reissue patent numbers listed in the Index. A similar listing appears for design patents and plant patents which are separately shown under their respective classifications.

In order to find patent numbers in the Index pertaining to a particular subject, the user must first know the class and subclass in which the Patent Office assigns inventions relating to that subject. In some instances a number of classes and subclasses may be pertinent. The process of finding this information requires the coordinated use of several other Patent Office publications usually found in collections which contain the *Index of Patents*. Each of them is considered below.

Manual of Classification: This publication is the source of the needed information as it contains the entire classification schedule showing the number and descriptive title of every class and subclass. It is, also, the key aid in the finding system as it provides a number of features aimed at assisting the user to identify his search problem and to use its content in locating the specific classification representing the subject matter of concern to him. These features include (1) listings of the class titles in alphabetical order; (2) description of the plan of the Manual; (3) discussion of the basis of classification, the scope of the classes, and the schematic arrangement of subclasses; (4) instructions on reading subclass titles and definitions; and, (5) suggestions on procedure for finding pertinent classification.

Index to Classification: This publication contains more than 300 pages of subject matter headings showing for each heading the class and subclass to which it pertains. They are arranged in alphabetical order in main heading and subheading categories, the latter being indented under the main headings and sometimes further subdivided. The headings include key words and significant phrases taken from the class and subclass titles, but they are neither limited to this source nor include all of them. Many technical as well as common terms of reference to objects, arts, processes, compositions of matter, etc., not found in the classification schedule are included in the index headings so as to offer a practical and convenient aid to finding patented subject matter.

Classification Bulletins: This is a series of numbered publications which supplements the *Manual of Classification* by giving detailed definitions and illustration of the kind of subject matter that can be found in each class and subclass, describing the lines of distinction among them, and containing references to other classes and subclasses having related subject matter. There is a separate Bulletin for each major classification, which is identified in the heading to each class in the Manual.

Use of Reference Publications

As a first step, the searcher should look in the *Index to Classification* for the term which to him best represents the subject matter of interest. If a match is not

found, he should look for terms of approximately the same meaning, for terms of either broader or narrower scope, or for terms which represent a different approach to the subject (e.g., the essential *function* or the *effect* of use or application of the art or object of concern). This requires that the user interact with the content of the Index, exercising judgment and imagination to consider alternatives or to find in the listed items some aspect of pertinency to his subject.

On finding the identifying numbers of possibly pertinent classes and subclasses in the Index, the user should refer to the *Manual of Classification* and ascertain from among the existing choices, the precise classification identity of his subject interest. Having thus determined the appropriate class and subclass, the searcher is ready to turn to the "Classification of Patents" listings to look for the corresponding numbers in its columns. The patent numbers found listed under the relevant classification provide the information needed to gain access to the patents themselves or to the extracts from them which are printed in the Official Gazette. In the latter connection, the user will find on the last page of this section a table entitled "List of Patent, Design, Plant Patent, and Reissue Numbers Appearing in the Official Gazette for 1965" which will guide him to the issue of the Official Gazette containing any specific patent number. He will find listed elsewhere in this section the 22 libraries which receive all U.S. patents and maintain them for public use in numerical order and the more than 300 depository libraries which receive the Official Gazette.

When the class and subclass which the searcher has determined to represent his interest does not appear in the "Classification of Patents" listing, he may assume that no patents were issued in that classification during the year. The possibility of this being the case is indicated by the fact that patents issued in less than one-third of the total number of subclasses in the classification.

If, after following the above-described procedure in using the *Index to Classification*, the searcher fails to find a pertinent classification, he should turn to the listings which appear at the front of the *Manual of Classification*. He should consider, particularly, the listing of groups of related subjects and the listing of classes arranged in alphabetical order which, in different ways, lay the entire framework of the classification in broad focus before him. He should scan the titles which appear on these sheets and note those which would appear to contain the subject matter sought.

Whichever of these approaches is taken, the searcher is guided to the classification schedules. He should inspect them carefully, proceeding from one major coordinate subclass to another until finding one which seems most nearly pertinent. The minor subclasses therein should then be scanned to find the title which indicates inclusion of the subject matter in question. Where doubt exists as to choice among several subclasses, the user should consult the Classification Bulletin containing the definitions of the class under study.

Further information on the use of the reference publications discussed above, as aids in using numerical files of patents or extracts of patents published in issues of the Official Gazette which may be found in the libraries listed elsewhere in this section, is offered in the illustrated publication *How To Obtain Information From United States Patents*, available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, at 20 cents a copy.

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3,221,340	3,225,359	1 : 3,176,316	217 : 3,176,321	126 : 3,226,692	391 : 3,210,782	3,185,538
3,221,340	3,225,359	1 : 3,176,316	218 : 3,176,321	127 : 3,226,692	392 : 3,222,697	3,188,164
3,221,340	3,225,359	1 : 3,176,316	219 : 3,176,321	128 : 3,226,692	393 : 3,222,698	3,189,400
3,221,340	3,225,359	1 : 3,176,316	220 : 3,176,321	129 : 3,226,692	394 : 3,222,698	3,192,007
3,221,340	3,225,359	1 : 3,176,316	221 : 3,176,321	130 : 3,226,692	395 : 3,222,698	3,199,942
3,221,340	3,225,359	1 : 3,176,316	222 : 3,176,321	131 : 3,226,692	396 : 3,222,698	3,201,189
3,221,340	3,225,359	1 : 3,176,316	223 : 3,176,321	132 : 3,226,692	397 : 3,222,698	3,214,234
3,221,340	3,225,359	1 : 3,176,316	224 : 3,176,321	133 : 3,226,692	398 : 3,222,698	3,215,485
3,221,340	3,225,359	1 : 3,176,316	225 : 3,176,321	134 : 3,226,692	399 : 3,222,698	3,218,117
3,221,340	3,225,359	1 : 3,176,316	226 : 3,176,321	135 : 3,226,692	400 : 3,222,698	3,226,178
3,221,340	3,225,359	1 : 3,176,316	227 : 3,176,321	136 : 3,226,692	401 : 3,222,698	3,201,190
3,221,340	3,225,359	1 : 3,176,316	228 : 3,176,321	137 : 3,226,692	402 : 3,222,698	3,171,711
3,221,340	3,225,359	1 : 3,176,316	229 : 3,176,321	138 : 3,226,692	403 : 3,222,698	3,215,486
3,221,340	3,225,359	1 : 3,176,316	230 : 3,176,321	139 : 3,226,692	404 : 3,222,698	3,203,752
3,221,340	3,225,359	1 : 3,176,316	231 : 3,176,321	140 : 3,226,692	405 : 3,222,698	3,223,471
3,221,340	3,225,359	1 : 3,176,316	232 : 3,176,321	141 : 3,226,692	406 : 3,222,698	3,211,514
3,221,340	3,225,359	1 : 3,176,316	233 : 3,176,321	142 : 3,226,692	407 : 3,222,698	3,189,401
3,221,340	3,225,359	1 : 3,176,316	234 : 3,176,321	143 : 3,226,692	408 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	235 : 3,176,321	144 : 3,226,692	409 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	236 : 3,176,321	145 : 3,226,692	410 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	237 : 3,176,321	146 : 3,226,692	411 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	238 : 3,176,321	147 : 3,226,692	412 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	239 : 3,176,321	148 : 3,226,692	413 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	240 : 3,176,321	149 : 3,226,692	414 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	241 : 3,176,321	150 : 3,226,692	415 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	242 : 3,176,321	151 : 3,226,692	416 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	243 : 3,176,321	152 : 3,226,692	417 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	244 : 3,176,321	153 : 3,226,692	418 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	245 : 3,176,321	154 : 3,226,692	419 : 3,222,698	3,189,402
3,221,340	3,225,359	1 : 3,176,316	246 : 3,176,321	155 : 3,226,692	420 : 3,222,698	3,189,402
3,221,340	3,					

Class 8—Con.	6 : 3,167,792	72 : 3,170,176	142 : 3,168,754	72 : 3,192,546	104.3 : 3,222,704	246 : 3,183,542
94.24 : 3,189,403	3,174,166	3,171,143	3,176,333	3,176,333	3,224,024	3,187,366
26 : 3,174,817	3,186,010	3,165,766	3,184,771	3,184,771	3,206,783	3,188,677
33 : 3,183,054	3,191,200	3,171,144	3,192,545	3,192,545	3,183,539	3,216,042
107 : 3,173,748	3,195,154	3,163,872	3,199,132	3,199,132	3,181,193	3,175,241
108 : 3,173,749	3,203,015	3,165,767	3,216,033	3,216,033	3,167,798	3,210,791
111 : 3,198,597	3,220,027	3,169,257	3,217,345	3,217,345	3,169,254	3,213,477
115.5 : 3,164,439	3,221,351	3,169,258	3,220,036	3,220,036	3,171,151	3,221,553
5 : 3,167,383	3,221,351	3,220,029	3,221,353	3,221,353	3,205,519	3,221,553
5 : 3,179,485	3,221,351	3,220,029	3,221,353	3,221,353	3,206,784	3,221,553
5 : 3,179,486	3,221,351	3,220,029	3,221,353	3,221,353	3,210,790	3,221,553
5 : 3,188,165	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,195,975	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,197,270	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,210,147	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,211,515	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,215,487	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,222,118	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
5 : 3,223,472	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
6 : 3,173,874	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
116 : 3,173,750	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,183,055	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,190,715	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,194,627	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,197,790	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,206,273	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,218,118	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,222,119	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
2 : 3,183,056	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
2 : 3,199,943	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
2 : 3,205,034	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
2 : 3,211,516	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,167,384	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,181,927	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,185,539	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,202,473	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,216,779	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,218,119	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,219,407	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,165,374	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,173,751	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,173,752	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,189,404	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,190,716	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,190,717	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
4 : 3,215,488	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
120 : 3,175,875	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,202,474	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,212,842	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,214,235	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,215,489	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
121.6 : 3,215,490	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
6 : 3,184,285	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
6 : 3,216,781	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
6 : 3,226,179	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
128 : 3,223,473	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
130.1 : 3,172,723	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
1 : 3,190,718	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
131 : 3,167,385	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,206,274	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
137 : 3,194,628	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,197,271	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
139.1 : 3,210,148	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
142 : 3,203,754	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
149.3 : 3,206,777	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3 : 3,213,470	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
151 : 3,177,505	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
2 : 3,218,654	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
156 : 3,199,126	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
158 : 3,174,165	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,203,013	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
159 : 3,197,791	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
3,209,381	3,221,351	3,220,029	3,221,353	3,221,353	3,221,354	3,221,553
Class 9	1 : 3,165,762	6 : 3,165,765	7 : 3,177,506	9 : 3,217,342	10 : 3,166,769	11 : 3,174,190
3,172,134	3,172,134	3,172,134	3,172,134	3,172,134	3,172,134	3,172,134
3,179,959	3,179,959	3,179,959	3,179,959	3,179,959	3,179,959	3,179,959
3,192,542	3,192,542	3,192,542	3,192,542	3,192,542	3,192,542	3,192,542
3,193,851	3,193,851	3,193,851	3,193,851	3,193,851	3,193,851	3,193,851
3,199,127	3,199,127	3,199,127	3,199,127	3,199,127	3,199,127	3,199,127
3,203,014	3,203,014	3,203,014	3,203,014	3,203,014	3,203,014	3,203,014
3,210,783	3,210,783	3,210,783	3,210,783	3,210,783	3,210,783	3,210,783
3,210,784	3,210,784	3,210,784	3,210,784	3,210,784	3,210,784	3,210,784
3,220,026	3,220,026	3,220,026	3,220,026	3,220,026	3,220,026	3,220,026
3,224,019	3,224,019	3,224,019	3,224,019	3,224,019	3,224,019	3,224,019
3,225,367	3,225,367	3,225,367	3,225,367	3,225,367	3,225,367	3,225,367
2 : 3,167,791	3,167,791	3,167,791	3,167,791	3,167,791	3,167,791	3,167,791
3,168,751	3,168,751	3,168,751	3,168,751	3,168,751	3,168,751	3,168,751
3,170,174	3,170,174	3,170,174	3,170,174	3,170,174	3,170,174	3,170,174
3,173,160	3,173,160	3,173,160	3,173,160	3,173,160	3,173,160	3,173,160
3,175,234	3,175,234	3,175,234	3,175,234	3,175,234	3,175,234	3,175,234
3,179,960	3,179,960	3,179,960	3,179,960	3,179,960	3,179,960	3,179,960
3,184,768	3,184,768	3,184,768	3,184,768	3,184,768	3,184,768	3,184,768
3,200,420	3,200,420	3,200,420	3,200,420	3,200,420	3,200,420	3,200,420
3,204,260	3,204,260	3,204,260	3,204,260	3,204,260	3,204,260	3,204,260
3,204,261	3,204,261	3,204,261	3,204,261	3,204,261	3,204,261	3,204,261
3,212,109	3,212,109	3,212,109	3,212,109	3,212,109	3,212,109	3,212,109
5 : 3,193,852	3,193,852	3,193,852	3,193,852	3,193,852	3,193,852	3,193,852

Class 15

1.5 : 3,204,271

7 : 3,170,180

7 : 3,188,668

7 : 3,191,206

7 : 3,220,037

3 : 3,167,797

11 : 3,217,346

16 : 3,189,927

16 : 3,199,134

5 : 3,212,116

51 : 3,186,014

4 : 3,170,181

3,192,547

3,224,022

21 : 3,178,744

3,187,359

3,191,207

3,196,472

3,200,428

3,208,088

3,212,112

3,212,113

3,217,076

3,219,302

3,205,292

3,181,189

3,183,538

3,184,658

3,173,981

3,180,915

3,180,916

3,183,293

3,185,754

3,186,510

3,187,159

3,197,792

3,221,352

3,220,032

3,221,352

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Class 18—Con.

30 : 3,221,373	159 : 3,218,677	19 : 3,208,109	74 : 3,192,576	57.2 : 3,220,068	129 : 3,212,144	2 : 3,179,488
3,222,726	3,221,374	3,217,367	91 : 3,171,167	3 : 3,176,356	130 : 3,177,537	3,181,928
3,222,727	3,192,572	3,224,046	3,172,170	3 : 3,183,563	133 : 3,189,955	3,185,540
3,224,043	3,183,557	3,225,393	92 : 3,166,802	3 : 3,206,809	136 : 3,167,831	3,188,167
3,224,044	3,222,730	23 : 3,171,164	3,172,171	4 : 3,163,896	137 : 3,176,357	3,189,406
3,176,350	3,172,165	3,179,985	3,178,780	4 : 3,167,830	139 : 3,163,898	3,214,236
3,224,044	3,179,982	3,204,299	3,187,389	4 : 3,181,209	3,166,805	3,216,782
3,167,817	3,186,036	3,216,067	3,191,243	4 : 3,193,888	3,184,813	3,216,783
3,169,276	3,205,538	3,218,679	3,192,577	5 : 3,208,112	3,165,797	3,220,794
3,171,163	3,217,365	3,220,063	3,193,886	58 : 3,174,198	3,165,798	3,224,831
3,173,177	3,184,799	3,179,986	3,195,196	3,195,197	3,166,806	3,181,929
3,178,773	3,176,551	27 : 3,201,830	3,197,822	3,221,378	3,166,807	3,186,789
3,218,673	3,203,051	35 : 3,167,821	3,201,834	60 : 3,192,581	3,171,173	3,192,009
3,225,388	3,206,803	3,168,763	3,204,300	61 : 3,193,889	3,178,783	3,199,946
3,210,806	3,216,064	3,177,533	3,206,805	63 : 3,200,451	3,164,441	14 : Re.25,777
3,222,728	3,166,798	3,179,987	3,206,806	64 : 3,220,069	3,166,377	3,166,377
3,174,188	3,178,774	3,189,951	3,214,802	65 : 3,164,871	3,171,173	3,192,009
3,177,528	3,176,352	3,178,776	3,225,394	3,168,765	3,178,783	3,199,946
3,189,947	3,222,731	3,184,805	3,174,199	3,171,173	3,166,377	3,192,009
3,192,567	3,167,820	3,203,052	3,181,210	3,168,765	3,166,377	3,192,009
3,209,409	3,195,188	40.5 : 3,188,700	3,191,245	3,171,173	3,166,377	3,192,009
3,222,729	3,192,573	5 : 3,191,240	3,199,158	3,171,173	3,166,377	3,192,009
3,224,045	3,164,867	5 : 3,213,493	3,213,497	3,171,173	3,166,377	3,192,009
3,170,193	3,191,237	42 : 3,197,818	3,213,497	3,171,173	3,166,377	3,192,009
3,189,948	3,200,446	3,199,154	3,213,497	3,171,173	3,166,377	3,192,009
3,193,882	3,205,539	3,210,807	3,213,497	3,171,173	3,166,377	3,192,009
3,196,491	3,225,392	45 : 3,214,801	3,213,497	3,171,173	3,166,377	3,192,009
3,165,786	3,168,760	52 : 3,167,822	3,193,890	3,171,173	3,166,377	3,192,009
3,175,250	3,196,493	3,169,283	3,196,501	3,171,173	3,166,377	3,192,009
3,192,568	3,212,139	3,172,169	3,196,502	3,171,173	3,166,377	3,192,009
3,193,883	3,205,540	3,173,179	3,199,159	3,171,173	3,166,377	3,192,009
3,170,194	3,216,065	3,184,806	3,199,159	3,171,173	3,166,377	3,192,009
3,164,864	3,174,189	3,195,193	3,201,836	3,171,173	3,166,377	3,192,009
3,165,787	3,165,788	3,208,110	3,208,113	3,171,173	3,166,377	3,192,009
3,166,795	3,172,162	3,209,411	3,209,416	3,171,173	3,166,377	3,192,009
3,172,162	3,174,189	3,209,412	3,209,417	3,171,173	3,166,377	3,192,009
3,188,692	3,191,238	3,220,064	3,213,497	3,171,173	3,166,377	3,192,009
3,192,569	3,191,239	2 : 3,173,180	3,213,497	3,171,173	3,166,377	3,192,009
3,193,884	3,191,239	2 : 3,183,559	3,213,497	3,171,173	3,166,377	3,192,009
3,199,150	3,195,189	2 : 3,195,194	3,213,497	3,171,173	3,166,377	3,192,009
3,213,492	3,196,799	2 : 3,197,819	3,213,497	3,171,173	3,166,377	3,192,009
3,167,818	3,196,799	2 : 3,206,804	3,213,497	3,171,173	3,166,377	3,192,009
3,191,235	3,196,799	2 : 3,208,111	3,213,497	3,171,173	3,166,377	3,192,009
3,195,186	3,196,799	2 : 3,212,139	3,213,497	3,171,173	3,166,377	3,192,009
3,164,865	3,196,799	2 : 3,222,733	3,213,497	3,171,173	3,166,377	3,192,009
3,165,789	3,196,799	4 : 3,174,194	3,213,497	3,171,173	3,166,377	3,192,009
3,170,195	3,196,799	53 : 3,163,891	3,213,497	3,171,173	3,166,377	3,192,009
3,172,163	3,196,799	3,181,204	3,213,497	3,171,173	3,166,377	3,192,009
3,187,384	3,196,799	3,182,358	3,213,497	3,171,173	3,166,377	3,192,009
3,192,570	3,196,799	3,212,140	3,213,497	3,171,173	3,166,377	3,192,009
3,216,062	3,196,799	3,212,140	3,213,497	3,171,173	3,166,377	3,192,009
3,164,866	3,196,799	3,212,140	3,213,497	3,171,173	3,166,377	3,192,009
3,203,050	3,196,799	3,212,140	3,213,497	3,171,173	3,166,377	3,192,009
3,166,796	3,196,799	3,212,140	3,213,497	3,171,173	3,166,377	3,192,009
Class 19	3,166,799	3,212,140	3,213,497	3,171,173	3,166,377	3,192,009
25 : 3,167,819	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
25 : 3,191,236	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
25 : 3,199,151	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
25 : 3,216,063	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
51 : 3,209,410	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
8 : 3,187,385	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
50 : 3,218,674	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
59 : 3,163,889	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
60 : 3,225,389	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
64.5 : 3,177,529	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
65 : 3,169,277	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,184,798	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,192,571	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,204,295	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,220,060	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,214,798	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,218,675	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,220,061	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,225,390	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,170,196	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,208,106	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,166,797	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,200,445	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,225,391	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,169,278	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,205,537	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,218,676	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,196,492	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,204,296	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,212,138	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,175,251	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,204,297	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
144.5 : 3,165,790	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
145.5 : 3,175,252	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
5 : 3,204,298	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
5 : 3,208,107	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
148 : 3,170,197	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
150 : 3,195,187	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
151 : 3,172,164	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
155 : 3,187,386	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
156.3 : 3,187,387	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
159 : 3,169,279	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,199,152	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009
3,214,799	3,174,191	5 : 3,220,065	3,213,497	3,171,173	3,166,377	3,192,009

14.5 : 3,222,124	107 : 3,201,195	165 : 3,181,931	209 : 3,219,414	253 : 3,192,017	281 : 3,195,986	300 : 3,197,289
5 : 3,222,125	3,211,523	3,186,793	3,167,393	3,193,358	3,203,770	3,198,608
5 : 3,223,475	3,220,795	3,192,013	3,170,764	3,197,285	3,203,771	3,201,208
16 : 3,212,847	3,223,479	3,192,014	3,175,885	3,205,045	3,205,049	3,211,538
18 : 3,206,276	3,223,480	3,193,350	3,181,933	3,211,530	3,208,830	3,212,863
3,206,277	3,226,184	3,193,351	3,207,582	3,212,855	3,215,503	3,217,765
19 : 3,167,389	3,208,821	3,195,980	3,171,720	3,216,804	3,217,833	3,175,891
3,168,372	3,223,481	3,197,280	3,172,729	3,219,416	3,180,710	3,179,502
3,169,825	3,171,718	3,206,282	3,172,729	3,222,135	3,190,729	3,189,419
22 : 3,173,754	3,174,826	3,207,580	3,184,290	3,223,485	3,193,360	3,190,732
3,190,719	3,184,288	3,224,831	3,188,175	3,224,486	3,194,638	3,195,990
3,192,011	3,184,289	3,224,831	3,201,200	3,224,487	3,199,958	3,201,209
3,216,787	3,193,344	3,224,831	3,203,765	3,224,488	3,199,959	3,210,165
23 : 3,190,720	3,197,278	3,172,725	3,206,285	3,223,488	3,201,205	3,223,498
3,192,012	3,197,279	3,210,156	3,222,131	3,226,200	3,212,855	3,224,844
25 : 3,195,978	3,201,196	3,211,526	3,180,709	3,215,499	3,215,504	3,167,401
32 : 3,189,407	3,203,755	3,188,176	3,210,157	3,223,489	3,174,834	3,208,834
33 : 3,207,571	3,205,036	3,186,794	3,165,382	3,173,762	3,178,269	3,222,142
38 : 3,199,948	3,208,822	3,195,981	3,186,797	3,188,181	3,180,711	3,193,361
48 : 3,178,260	3,215,494	3,198,602	3,188,179	3,193,359	3,183,064	3,167,402
49 : 3,175,880	3,173,759	3,165,379	3,194,636	3,201,203	3,202,486	3,165,384
3,207,572	3,185,544	3,172,726	3,197,284	3,202,484	3,215,505	3,199,962
3,216,788	3,201,197	3,172,727	3,198,604	3,211,531	3,219,420	3,206,288
50 : 3,174,822	3,205,037	3,194,634	3,205,044	3,215,500	3,226,204	3,168,379
3,174,823	3,216,789	3,203,759	3,216,800	3,219,417	3,165,383	3,179,503
3,208,820	3,203,756	3,203,760	3,216,801	3,171,723	3,167,398	3,180,713
51 : 3,175,881	3,205,038	3,208,823	3,222,132	3,175,887	3,170,769	3,186,809
3,207,573	3,216,790	3,172,728	3,169,830	3,178,267	3,172,736	3,194,641
58 : 3,226,183	3,216,791	3,185,546	3,174,828	3,190,725	3,172,737	3,214,248
59 : 3,164,442	3,226,185	3,193,352	3,177,050	3,224,839	3,173,763	3,215,509
3,178,261	3,168,374	3,197,281	3,179,498	3,165,522	3,174,835	3,219,422
3,186,791	3,226,186	3,212,850	3,181,934	3,175,888	3,183,065	3,224,845
3,218,120	3,226,187	3,216,796	3,168,376	3,203,767	3,186,803	
63 : 3,184,287	3,186,792	3,203,761	3,201,201	3,211,532	3,188,183	Class 24
3,188,170	3,201,198	3,216,380	3,210,158	3,222,136	3,194,639	
3,189,408	3,205,039	3,181,932	Re: 25,933	3,175,889	3,197,286	3 : 3,172,178
3,202,477	3,190,721	3,189,411	3,207,583	3,179,500	3,199,960	3,196,507
3,211,519	3,190,722	3,169,828	3,218,132	3,186,802	3,206,287	3,210,814
3,212,848	3,198,601	3,189,412	3,199,954	3,192,018	3,210,162	3,224,052
64 : 3,189,409	3,203,757	3,192,015	3,212,853	3,212,856	3,210,163	10 : 3,178,784
66 : 3,179,493	3,207,576	3,208,824	3,219,415	3,226,201	3,211,536	3,212,146
67 : 3,169,826	3,193,345	3,211,527	3,199,955	3,170,766	3,212,860	3,217,369
75 : 3,167,387	3,216,792	3,212,851	3,216,394	3,170,767	3,215,506	11 : 3,175,261
3,188,171	3,226,188	3,212,852	3,168,377	3,170,768	3,222,137	3,224,053
3,197,275	3,226,189	3,226,193	3,168,378	3,172,733	3,222,138	12 : 3,171,176
3,222,126	3,207,577	3,226,194	3,169,831	3,174,830	3,174,830	16 : 3,163,899
77 : 3,180,705	3,165,378	3,194,635	3,170,765	3,202,485	3,215,262	
78 : 3,173,755	3,216,793	3,214,243	3,172,730	3,210,160	3,170,770	3,186,407
79 : 3,189,410	3,226,190	3,186,795	3,172,731	3,164,443	3,222,139	3,192,584
3,206,278	3,214,241	3,193,353	3,173,732	3,190,726	3,167,444	3,197,829
3,207,574	3,168,375	3,198,603	3,173,761	3,195,984	3,166,381	3,197,830
85 : 3,178,262	3,224,835	3,170,762	3,178,265	3,199,956	3,166,382	3,197,831
3,179,494	3,220,796	3,197,282	3,185,549	3,220,802	3,167,399	3,206,813
3,218,121	3,179,497	3,218,130	3,186,798	3,226,202	3,167,400	3,214,807
3,223,477	3,190,723	3,169,046	3,188,180	3,199,957	3,169,835	3,214,808
86 : 3,199,949	3,193,346	3,171,719	3,190,724	3,212,857	3,169,836	3,224,054
87 : 3,170,760	3,193,347	3,178,264	3,193,355	3,164,444	3,172,738	3,224,055
3,180,706	3,202,479	3,203,762	3,193,356	3,174,831	3,172,739	3,224,056
3,201,192	3,185,545	3,203,763	3,193,357	3,178,268	3,173,764	20 : Re: 25,769
3,210,152	3,210,155	3,211,528	3,195,982	3,179,501	3,174,836	3,177,538
3,211,520	3,211,524	3,215,496	3,195,983	3,189,414	3,180,712	3,182,364
3,218,122	3,222,129	3,218,131	3,201,202	3,192,019	3,184,291	3,188,706
3,172,724	3,223,482	3,219,411	3,202,483	3,195,985	3,186,804	3,189,961
3,175,882	3,226,191	3,224,836	3,207,584	3,172,734	3,186,805	3,206,814
3,179,495	Re: 25,864	3,165,381	3,208,826	3,174,832	3,186,806	3,210,815
3,185,543	3,175,883	3,167,392	3,208,827	3,183,063	3,186,807	3,213,499
3,194,630	3,188,173	3,169,829	3,208,828	3,185,551	3,188,184	3,216,079
3,197,276	3,216,794	3,185,547	3,212,854	3,188,182	3,188,185	3,220,072
3,198,600	3,169,827	3,188,177	3,215,498	3,189,415	3,189,417	21 : 3,193,894
3,201,193	3,188,174	3,193,354	3,216,802	3,190,727	3,189,418	27 : 3,208,120
3,205,035	3,193,348	3,211,529	3,216,803	3,190,728	3,190,730	30.5 : 3,182,365
3,206,279	3,193,349	3,214,244	3,222,133	3,194,637	3,195,987	31 : 3,186,048
3,206,280	3,201,199	3,216,797	3,224,837	3,198,607	3,195,988	33 : 3,165,800
3,207,575	3,202,480	3,216,798	3,226,195	3,203,768	3,195,989	3,171,177
3,212,849	3,207,578	3,219,412	3,226,196	3,205,046	3,201,206	3,177,539
89 : 3,215,493	3,220,797	3,173,758	3,226,197	3,205,047	3,201,207	36 : 3,206,815
3,174,825	3,222,130	3,173,760	3,169,832	3,206,286	3,208,831	37 : 3,212,147
3,188,172	3,223,483	3,180,707	3,207,585	3,211,533	3,208,832	41 : 3,220,073
3,197,277	3,223,484	3,180,708	3,224,838	3,212,858	3,208,833	49 : 3,173,181
3,219,409	3,194,633	3,183,061	3,226,198	3,216,805	3,211,537	3,204,305
91 : 3,181,930	3,216,795	3,185,548	3,216,395	3,218,133	3,212,861	52 : 3,204,306
93 : 3,222,127	3,166,390	3,188,178	3,169,833	3,218,134	3,214,247	68 : 3,173,182
97 : 3,202,478	3,183,060	3,192,016	3,171,721	3,224,840	3,215,507	3,178,785
98 : 3,194,631	3,199,951	3,197,283	3,198,605	3,226,203	3,215,508	3,182,366
100 : 3,167,390	3,215,495	3,203,764	3,203,766	3,164,445	3,215,509	3,203,058
102 : 3,173,756	3,166,379	3,205,040	3,208,829	3,189,416	3,220,805	3,204,307
3,173,757	3,167,391	3,206,283	3,210,159	3,201,204	3,222,140	3,214,809
3,206,281	3,195,979	3,206,284	3,214,245	3,203,769	3,223,490	3,216,048
3,210,153	3,199,952	3,207,581	3,220,801	3,205,048	3,223,491	70 : 3,163,900
3,211,521	3,207,579	3,216,799	3,222,134	3,210,161	3,226,205	71 : 3,200,458
3,214,240	3,214,242	3,219,413	3,226,199	3,211,534	3,226,206	1 : 3,183,565
3,218,123	3,218,124	3,220,799	Re: 25,932	3,214,246	3,197,288	2 : 3,208,121
3,222,128	3,218,125	3,220,800	3,167,396	3,215,501	3,212,862	73 : 3,169,289
103 : 3,171,716	3,218,126	3,170,763	3,167,397	3,215,502	3,223,492	3,207,206
3,171,717	3,218,127	3,183,062	3,169,834	3,218,134	3,170,771	3,176,359
3,174,824	3,218,128	3,205,041	3,171,722	3,219,418	3,222,141	3,176,360
3,199,950	3,218,129	3,215,497	3,174,829	3,219,419	3,186,808	3,177,540
3,211,522	3,219,410	3,208,825	3,178,266	3,220,803	3,190,731	3,178,786
3,223,478	3,199,953	3,166,380	3,179,499	3,224,841	3,219,421	3,179,991
105 : 3,194,632	3,220,798	3,174,827	3,185,550	3,224,842	3,217,051	3,181,214
3,201,194	3,202,481	3,175,884	3,186,799	3,173,735	3,194,640	3,182,367
3,210,154	3,211,525	3,205,042	3,186,800	3,211,535	3,199,961	3,186,049
106 : 3,168,373	3,170,761	3,205,043	3,186,801	3,175,890	3,202,487	3,193,895
3,219,406	3,178,263	3,202,482	3,189,413	3,192,020	3,224,843	3,196,508
107 : 3,201,195	3,186,793	3,192,013	3,170,764	3,193,358	3,203,770	3,198,608
5 : 3,222,125	3,220,795	3,192,014	3,175,885	3,205,045	3,205,049	3,211,538
16 : 3,212,847	3,223,480	3,193,350	3,181,933	3,211,530	3,208,830	3,212,863
18 : 3,206,276	3,226,184	3,193,351	3,207,582	3,212,855	3,215,503	3,217,765
19 : 3,167,389	3,208,821	3,195,980	3,171,720	3,216,804	3,217,833	3,175,891
3,168,372	3,223,481	3,197,280	3,172,729	3,219,416	3,180,710	3,179,502
3,169,825	3,171,718	3,206,282	3,172,729	3,222,135	3,190,729	3,189,419
22 : 3,173,754	3,174,826	3,207,580	3,184,290	3,223,485	3,193,360	3,190,732
3,190,719	3,184,288	3,224,831	3,188,175	3,224,486	3,194,638	3,195,990
3,192,011	3,184,289	3,224,831	3,201,200	3,224,487	3,199,958	3,201,209
3,216,787	3,193,344	3,224,831	3,203,765	3,224,488	3,199,959	3,210,165
23 : 3,190,720	3,197,278	3,172,725	3,206,285	3,223,488	3,201,205	3,223,498
3,192,012	3,197,279	3,210,156	3,222,131	3,226,200	3,212,855	3,224,844
25 : 3,195,978	3,201,196	3,211,526	3,180,709	3,215,499	3,215,504	3,167,401
32 : 3,189,407	3,203,755	3,188,176	3,210,157	3,223,48		

Class 24—Con.	153 : 3,176,363	230 : 3,179,997	38 : 3,216,080	55 : 3,175,272	75 : 3,175,273	33 : 3,187,405
73 : 3,200,459	158 : 3,181,218	160 : 3,217,372	39 : 3,176,370	57 : 3,216,081	76 : 3,166,824	34 : 3,187,516
3,203,059	162 : 3,225,404	165 : 3,222,743	41 : 3,176,371	61 : 3,180,001	3,173,829	3,196,517
3,204,308	166 : 3,175,545	170 : 3,177,545	42 : 3,177,552	62 : 3,180,002	3,220,086	3,199,170
3,205,544	167 : 3,175,546	171 : 3,177,546	43 : 3,177,553	63 : 3,195,214		3,200,471
3,208,122	168 : 3,175,547	172 : 3,177,547	44 : 3,177,554	3,199,165		3,201,847
3,208,123	169 : 3,175,548	173 : 3,177,548	45 : 3,177,555	3,201,848		3,201,848
3,210,816	170 : 3,175,549	174 : 3,177,549	46 : 3,177,556	3,210,823		3,210,823
3,212,148	171 : 3,175,550	175 : 3,177,550	47 : 3,177,557	3,212,164		3,212,164
3,213,500	172 : 3,175,551	176 : 3,177,551	48 : 3,177,558	3,212,165		3,212,165
3,214,814	173 : 3,175,552	177 : 3,177,552	49 : 3,177,559	3,212,166		3,212,166
3,215,541	174 : 3,175,553	178 : 3,177,553	50 : 3,177,560	3,212,167		3,212,167
3,216,817	175 : 3,175,554	179 : 3,177,554	51 : 3,177,561	3,212,168		3,212,168
3,217,541	176 : 3,175,555	180 : 3,177,555	52 : 3,177,562	3,212,169		3,212,169
3,218,817	177 : 3,175,556	181 : 3,177,556	53 : 3,177,563	3,212,170		3,212,170
3,219,817	178 : 3,175,557	182 : 3,177,557	54 : 3,177,564	3,212,171		3,212,171
3,220,459	179 : 3,175,558	183 : 3,177,558	55 : 3,177,565	3,212,172		3,212,172
3,221,384	180 : 3,175,559	184 : 3,177,559	56 : 3,177,566	3,212,173		3,212,173
3,222,422	181 : 3,175,560	185 : 3,177,560	57 : 3,177,567	3,212,174		3,212,174
3,223,422	182 : 3,175,561	186 : 3,177,561	58 : 3,177,568	3,212,175		3,212,175
3,224,057	183 : 3,175,562	187 : 3,177,562	59 : 3,177,569	3,212,176		3,212,176
3,225,404	184 : 3,175,563	188 : 3,177,563	60 : 3,177,570	3,212,177		3,212,177
3,226,817	185 : 3,175,564	189 : 3,177,564	61 : 3,177,571	3,212,178		3,212,178
3,228,122	186 : 3,175,565	190 : 3,177,565	62 : 3,177,572	3,212,179		3,212,179
3,229,422	187 : 3,175,566	191 : 3,177,566	63 : 3,177,573	3,212,180		3,212,180
3,230,459	188 : 3,175,567	192 : 3,177,567	64 : 3,177,574	3,212,181		3,212,181
3,231,384	189 : 3,175,568	193 : 3,177,568	65 : 3,177,575	3,212,182		3,212,182
3,232,422	190 : 3,175,569	194 : 3,177,569	66 : 3,177,576	3,212,183		3,212,183
3,233,422	191 : 3,175,570	195 : 3,177,570	67 : 3,177,577	3,212,184		3,212,184
3,234,057	192 : 3,175,571	196 : 3,177,571	68 : 3,177,578	3,212,185		3,212,185
3,235,404	193 : 3,175,572	197 : 3,177,572	69 : 3,177,579	3,212,186		3,212,186
3,236,817	194 : 3,175,573	198 : 3,177,573	70 : 3,177,580	3,212,187		3,212,187
3,237,541	195 : 3,175,574	199 : 3,177,574	71 : 3,177,581	3,212,188		3,212,188
3,238,817	196 : 3,175,575	200 : 3,177,575	72 : 3,177,582	3,212,189		3,212,189
3,239,817	197 : 3,175,576	201 : 3,177,576	73 : 3,177,583	3,212,190		3,212,190
3,240,459	198 : 3,175,577	202 : 3,177,577	74 : 3,177,584	3,212,191		3,212,191
3,241,384	199 : 3,175,578	203 : 3,177,578	75 : 3,177,585	3,212,192		3,212,192
3,242,422	200 : 3,175,579	204 : 3,177,579	76 : 3,177,586	3,212,193		3,212,193
3,243,057	201 : 3,175,580	205 : 3,177,580	77 : 3,177,587	3,212,194		3,212,194
3,244,057	202 : 3,175,581	206 : 3,177,581	78 : 3,177,588	3,212,195		3,212,195
3,245,404	203 : 3,175,582	207 : 3,177,582	79 : 3,177,589	3,212,196		3,212,196
3,246,817	204 : 3,175,583	208 : 3,177,583	80 : 3,177,590	3,212,197		3,212,197
3,247,541	205 : 3,175,584	209 : 3,177,584	81 : 3,177,591	3,212,198		3,212,198
3,248,817	206 : 3,175,585	210 : 3,177,585	82 : 3,177,592	3,212,199		3,212,199
3,249,817	207 : 3,175,586	211 : 3,177,586	83 : 3,177,593	3,212,200		3,212,200
3,250,459	208 : 3,175,587	212 : 3,177,587	84 : 3,177,594	3,212,201		3,212,201
3,251,384	209 : 3,175,588	213 : 3,177,588	85 : 3,177,595	3,212,202		3,212,202
3,252,422	210 : 3,175,589	214 : 3,177,589	86 : 3,177,596	3,212,203		3,212,203
3,253,422	211 : 3,175,590	215 : 3,177,590	87 : 3,177,597	3,212,204		3,212,204
3,254,057	212 : 3,175,591	216 : 3,177,591	88 : 3,177,598	3,212,205		3,212,205
3,255,404	213 : 3,175,592	217 : 3,177,592	89 : 3,177,599	3,212,206		3,212,206
3,256,817	214 : 3,175,593	218 : 3,177,593	90 : 3,177,600	3,212,207		3,212,207
3,257,541	215 : 3,175,594	219 : 3,177,594	91 : 3,177,601	3,212,208		3,212,208
3,258,817	216 : 3,175,595	220 : 3,177,595	92 : 3,177,602	3,212,209		3,212,209
3,259,817	217 : 3,175,596	221 : 3,177,596	93 : 3,177,603	3,212,210		3,212,210
3,260,459	218 : 3,175,597	222 : 3,177,597	94 : 3,177,604	3,212,211		3,212,211
3,261,384	219 : 3,175,598	223 : 3,177,598	95 : 3,177,605	3,212,212		3,212,212
3,262,422	220 : 3,175,599	224 : 3,177,599	96 : 3,177,606	3,212,213		3,212,213
3,263,422	221 : 3,175,600	225 : 3,177,600	97 : 3,177,607	3,212,214		3,212,214
3,264,057	222 : 3,175,601	226 : 3,177,601	98 : 3,177,608	3,212,215		3,212,215
3,265,404	223 : 3,175,602	227 : 3,177,602	99 : 3,177,609	3,212,216		3,212,216
3,266,817	224 : 3,175,603	228 : 3,177,603	100 : 3,177,610	3,212,217		3,212,217
3,267,541	225 : 3,175,604	229 : 3,177,604	101 : 3,177,611	3,212,218		3,212,218
3,268,817	226 : 3,175,605	230 : 3,177,605	102 : 3,177,612	3,212,219		3,212,219
3,269,817	227 : 3,175,606	231 : 3,177,606	103 : 3,177,613	3,212,220		3,212,220
3,270,459	228 : 3,175,607	232 : 3,177,607	104 : 3,177,614	3,212,221		3,212,221
3,271,384	229 : 3,175,608	233 : 3,177,608	105 : 3,177,615	3,212,222		3,212,222
3,272,422	230 : 3,175,609	234 : 3,177,609	106 : 3,177,616	3,212,223		3,212,223
3,273,422	231 : 3,175,610	235 : 3,177,610	107 : 3,177,617	3,212,224		3,212,224
3,274,057	232 : 3,175,611	236 : 3,177,611	108 : 3,177,618	3,212,225		3,212,225
3,275,404	233 : 3,175,612	237 : 3,177,612	109 : 3,177,619	3,212,226		3,212,226
3,276,817	234 : 3,175,613	238 : 3,177,613	110 : 3,177,620	3,212,227		3,212,227
3,277,541	235 : 3,175,614	239 : 3,177,614	111 : 3,177,621	3,212,228		3,212,228
3,278,817	236 : 3,175,615	240 : 3,177,615	112 : 3,177,622	3,212,229		3,212,229
3,279,817	237 : 3,175,616	241 : 3,177,616	113 : 3,177,623	3,212,230		3,212,230
3,280,459	238 : 3,175,617	242 : 3,177,617	114 : 3,177,624	3,212,231		3,212,231
3,281,384	239 : 3,175,618	243 : 3,177,618	115 : 3,177,625	3,212,232		3,212,232
3,282,422	240 : 3,175,619	244 : 3,177,619	116 : 3,177,626	3,212,233		3,212,233
3,283,422	241 : 3,175,620	245 : 3,177,620	117 : 3,177,627	3,212,234		3,212,234
3,284,057	242 : 3,175,621	246 : 3,177,621	118 : 3,177,628	3,212,235		3,212,235
3,285,404	243 : 3,175,622	247 : 3,177,622	119 : 3,177,629	3,212,236		3,212,236
3,286,817	244 : 3,175,623	248 : 3,177,623	120 : 3,177,630	3,212,237		3,212,237
3,287,541	245 : 3,175,624	249 : 3,177,624	121 : 3,177,631	3,212,238		3,212,238
3,288,817	246 : 3,175,625	250 : 3,177,625	122 : 3,177,632	3,212,239		3,212,239
3,289,817	247 : 3,175,626	251 : 3,177,626	123 : 3,177,633	3,212,240		3,212,240
3,290,459	248 : 3,175,627	252 : 3,177,627	124 : 3,177,634	3,212,241		3,212,241
3,291,384	249 : 3,175,628	253 : 3,177,628	125 : 3,177,635	3,212,242		3,212,242
3,292,422	250 : 3,175,629	254 : 3,177,629	126 : 3,177,636	3,212,243		3,212,243
3,293,422	251 : 3,175,630	255 : 3,177,630	127 : 3,177,637	3,212,244		3,212,244
3,294,057	252 : 3,175,631	256 : 3,177,631	128 : 3,177,638	3,212,245		3,212,245
3,295,404	253 : 3,175,632	257 : 3,177,632	129 : 3,177,639	3,212,246		3,212,246
3,296,817	254 : 3,175,633	258 : 3,177,633	130 : 3,177,640	3,212,247		3,212,247
3,297,541	255 : 3,175,634	259 : 3,177,634	131 : 3,177,641	3,212,248		3,212,248
3,298,817	256 : 3,175,635	260 : 3,177,635	132 : 3,177,642	3,212,249		3,212,249
3,299,817	257 : 3,175,636	261 : 3,177,636	133 : 3,177,643	3,212,250		3,212,250
3,300,459	258 : 3,175,637	262 : 3,177,637	134 : 3,177,644	3,212,251		3,212,251
3,301,384	259 : 3,175,638	263 : 3,177,638	135 : 3,177,645	3,212,252		3,212,252
3,302,422	260 : 3,175,639	264 : 3,177,639	136 : 3,177,646	3,212,253		3,212,253
3,303,422	261 : 3,175,640	265 : 3,177,640	137 : 3,177,647	3,212,254		3,212,254
3,304,057	262 : 3,175,641	266 : 3,177,641	138 : 3,177,648	3,212,255		3,212,255
3,305,404	263 : 3,175,642	267 : 3,177,642	139 : 3,177,649	3,212,256		3,212,256
3,306,817	264 : 3,175,643	268 : 3,177,643	140 : 3,177,650	3,212,257		3,212,257
3,307,541	265 : 3,175,644	269 : 3,177,644	141 : 3,177,651	3,212,258		3,212,258
3,308,817	266 : 3,175,645	270 : 3,177,645	142 : 3,177,652	3,212,259		3,212,259
3,309,817	267 : 3,175,646	271 : 3,177,646	143 : 3,177,653	3,212,260		3,212,260
3,310,459	268 : 3,175,647	272 : 3,177,647	144 : 3,177,654	3,212,261		3,212,261
3,311,384	269 : 3,175,648	273 : 3,177,648	145 : 3,177,655	3,212,262		3,212,262
3,312,422	270 : 3,175,649	274 : 3,177,649	146 : 3,177,656	3,212,263		3,212,263
3,313,422	271 : 3,175,650	275 : 3,177,650	147 : 3,177,657	3,212,264		3,212,264
3,314,057	272 : 3,175,651	276 : 3,177,651	148 : 3,177,658	3,212,265		3,212,265
3,315,404	273 : 3,175,652	277 : 3,177,652	149 : 3,177,659	3,212,266		3,212,266
3,316,817	274 : 3,175,653	278 : 3,177,653	150 : 3,177,660	3,212,267		3,212,267
3,317,541	275 : 3,175,654	279 : 3,177,654	15			

Class 29—Con.	509 : 3,163,931	34.1 : 3,213,535	254 : 3,175,291	27 : 3,210,848	50.5 : 3,184,852	143 : 3,177,588
470 : 3,166,840	510 : 3,167,427	1 : 3,213,536	255 : 3,175,291	28 : 3,169,318	51 : 3,178,824	144 : 3,181,244
3,184,841	3,193,921	2 : 3,181,237	264 : 3,174,224	29 : 3,213,537	3,200,499	3,182,403
3,184,842	3,197,860	3 : 3,191,296	268 : 3,170,237	30 : 3,176,400	3,187,436	3,188,742
3,206,846	3,204,334	4 : 3,220,108	272 : 3,189,998	31 : 3,200,497	3,218,718	3,190,006
3,209,447	3,192,621	5 : 3,176,391	3,206,852	32 : 3,199,202	3,221,416	3,193,935
3,220,105	3,210,841	6 : 3,176,392	3,203,096	33 : 3,221,408	3,196,546	3,196,546
1 : 3,178,811	3,221,403	7 : 3,216,109	3,224,095	34 : 3,184,853	3,200,501	3,213,541
2 : 3,197,855	512 : 3,209,451	8 : 3,220,109	3,224,096	35 : 3,208,145	3,196,549	3,217,417
3 : 3,197,856	517 : 3,192,622	9 : 3,166,842	3,225,443	36 : 3,205,581	3,196,550	3,218,719
4 : 3,201,862	520 : 3,171,196	10 : 3,172,200	3,225,444	37 : 3,171,203	3,196,551	3,222,447
5 : 3,203,083	522 : 3,210,842	11 : 3,186,087	3,199,194	38 : 3,209,458	3,197,878	3,170,241
6 : 3,209,448	525 : 3,188,733	12 : 3,225,440	3,199,316	39 : 3,221,409	3,197,879	3,176,402
7 : 3,212,183	526 : 3,222,777	13 : 3,191,297	3,186,088	40 : 3,191,304	3,199,204	3,178,825
8 : 3,218,702	527 : 3,169,310	14 : 3,196,541	3,188,738	41 : 3,197,870	3,200,503	3,184,857
9 : 3,175,284	3,169,311	15 : 3,208,141	3,201,868	42 : 3,216,112	3,200,504	3,190,007
10 : 3,212,182	3,180,023	16 : 3,218,707	3,174,225	43 : 3,184,854	3,193,934	3,192,634
11 : 3,191,288	3,187,428	17 : 3,196,539	3,178,817	44 : 3,224,099	3,199,197	3,197,873
12 : 3,186,083	3,189,993	18 : 3,206,850	3,191,301	45 : 3,208,150	3,199,199	3,200,505
13 : 3,200,489	3,191,291	19 : 3,169,313	3,222,784	46 : 3,224,099	3,200,506	3,200,506
471.1 : 3,167,930	3,210,843	20 : 3,167,861	3,167,861	47 : 3,209,459	3,200,507	3,200,507
1 : 3,168,782	3,216,105	21 : 3,191,298	3,191,302	48 : 3,212,129	3,200,508	3,200,508
2 : 3,180,020	3,224,087	22 : 3,182,397	3,182,397	49 : 3,212,130	3,200,509	3,200,509
3 : 3,188,732	3,174,221	23 : 3,191,300	3,206,851	50 : 3,212,131	3,200,510	3,200,510
4 : 3,205,571	3,175,287	24 : 3,201,866	3,206,853	51 : 3,212,132	3,200,511	3,200,511
5 : 3,205,572	3,177,579	25 : 3,218,708	3,224,095	52 : 3,212,133	3,200,512	3,200,512
6 : 3,218,703	3,180,024	26 : 3,171,201	3,171,201	53 : 3,212,134	3,200,513	3,200,513
7 : 3,218,704	3,188,734	27 : 3,176,393	3,217,410	54 : 3,212,135	3,200,514	3,200,514
8 : 3,169,309	3,191,292	28 : 3,187,431	3,171,206	55 : 3,212,136	3,200,515	3,200,515
9 : 3,204,332	3,197,861	29 : 3,201,869	3,175,294	56 : 3,212,137	3,200,516	3,200,516
10 : 3,177,576	3,197,862	30 : 3,224,094	3,177,585	57 : 3,212,138	3,200,517	3,200,517
11 : 3,187,426	3,203,086	31 : 3,193,926	3,184,845	58 : 3,212,139	3,200,518	3,200,518
472.3 : 3,201,863	3,206,848	32 : 3,169,317	3,169,317	59 : 3,212,140	3,200,519	3,200,519
1 : 3,177,577	3,209,452	33 : 3,177,581	3,177,581	60 : 3,212,141	3,200,520	3,200,520
2 : 3,196,536	3,213,533	34 : 3,203,093	3,203,093	61 : 3,212,142	3,200,521	3,200,521
3 : 3,186,084	3,216,106	35 : 3,204,337	3,204,337	62 : 3,212,143	3,200,522	3,200,522
4 : 3,217,401	3,217,405	36 : 3,204,338	3,204,338	63 : 3,212,144	3,200,523	3,200,523
473.1 : 3,173,201	3,218,705	37 : 3,224,099	3,224,099	64 : 3,212,145	3,200,524	3,200,524
1 : 3,173,202	3,222,778	38 : 3,171,198	3,171,198	65 : 3,212,146	3,200,525	3,200,525
2 : 3,200,490	3,166,841	39 : 3,193,923	3,193,923	66 : 3,212,147	3,200,526	3,200,526
3 : 3,203,084	3,183,588	40 : 3,177,582	3,177,582	67 : 3,212,148	3,200,527	3,200,527
4 : 3,208,137	3,188,735	41 : 3,178,815	3,178,815	68 : 3,212,149	3,200,528	3,200,528
5 : 3,214,833	3,191,293	42 : 3,191,293	3,191,293	69 : 3,212,150	3,200,529	3,200,529
6 : 3,191,289	3,199,191	43 : 3,183,590	3,183,590	70 : 3,212,151	3,200,530	3,200,530
7 : 3,225,437	3,213,534	44 : 3,169,315	3,169,315	71 : 3,212,152	3,200,531	3,200,531
8 : 3,220,106	3,224,088	45 : 3,197,865	3,197,865	72 : 3,212,153	3,200,532	3,200,532
474.1 : 3,167,857	3,170,235	46 : 3,218,709	3,218,709	73 : 3,212,154	3,200,533	3,200,533
1 : 3,220,107	3,170,236	47 : 3,218,710	3,218,710	74 : 3,212,155	3,200,534	3,200,534
2 : 3,177,578	3,167,859	48 : 3,218,711	3,218,711	75 : 3,212,156	3,200,535	3,200,535
3 : 3,222,773	3,164,898	49 : 3,218,712	3,218,712	76 : 3,212,157	3,200,536	3,200,536
4 : 3,200,491	3,167,860	50 : 3,218,713	3,218,713	77 : 3,212,158	3,200,537	3,200,537
5 : 3,205,573	3,189,994	51 : 3,218,714	3,218,714	78 : 3,212,159	3,200,538	3,200,538
475 : 3,191,290	3,181,236	52 : 3,218,715	3,218,715	79 : 3,212,160	3,200,539	3,200,539
1 : 3,199,188	3,187,429	53 : 3,218,716	3,218,716	80 : 3,212,161	3,200,540	3,200,540
2 : 3,204,333	3,212,185	54 : 3,218,717	3,218,717	81 : 3,212,162	3,200,541	3,200,541
3 : 3,212,184	3,222,779	55 : 3,218,718	3,218,718	82 : 3,212,163	3,200,542	3,200,542
4 : 3,164,896	3,216,107	56 : 3,218,719	3,218,719	83 : 3,212,164	3,200,543	3,200,543
5 : 3,192,389	3,173,203	57 : 3,218,720	3,218,720	84 : 3,212,165	3,200,544	3,200,544
6 : 3,208,138	3,208,142	58 : 3,218,721	3,218,721	85 : 3,212,166	3,200,545	3,200,545
7 : 3,217,402	3,174,222	59 : 3,218,722	3,218,722	86 : 3,212,167	3,200,546	3,200,546
8 : 3,189,992	3,186,085	60 : 3,218,723	3,218,723	87 : 3,212,168	3,200,547	3,200,547
480 : 3,197,857	3,188,736	61 : 3,218,724	3,218,724	88 : 3,212,169	3,200,548	3,200,548
1 : 3,200,492	3,191,294	62 : 3,218,725	3,218,725	89 : 3,212,170	3,200,549	3,200,549
2 : 3,195,229	3,200,492	63 : 3,218,726	3,218,726	90 : 3,212,171	3,200,550	3,200,550
3 : 3,213,532	3,217,406	64 : 3,218,727	3,218,727	91 : 3,212,172	3,200,551	3,200,551
483 : 3,180,021	3,218,706	65 : 3,218,728	3,218,728	92 : 3,212,173	3,200,552	3,200,552
484 : 3,181,235	3,221,404	66 : 3,218,729	3,218,729	93 : 3,212,174	3,200,553	3,200,553
1 : 3,209,449	3,225,439	67 : 3,218,730	3,218,730	94 : 3,212,175	3,200,554	3,200,554
487 : 3,165,828	3,173,202	68 : 3,218,731	3,218,731	95 : 3,212,176	3,200,555	3,200,555
1 : 3,167,858	3,180,022	69 : 3,218,732	3,218,732	96 : 3,212,177	3,200,556	3,200,556
2 : 3,173,202	3,196,537	70 : 3,218,733	3,218,733	97 : 3,212,178	3,200,557	3,200,557
3 : 3,203,087	3,196,538	71 : 3,218,734	3,218,734	98 : 3,212,179	3,200,558	3,200,558
4 : 3,201,864	3,201,864	72 : 3,218,735	3,218,735	99 : 3,212,180	3,200,559	3,200,559
488 : 3,170,234	3,184,843	73 : 3,218,736	3,218,736	100 : 3,212,181	3,200,560	3,200,560
1 : 3,199,189	3,191,295	74 : 3,218,737	3,218,737	101 : 3,212,182	3,200,561	3,200,561
2 : 3,210,840	3,193,922	75 : 3,218,738	3,218,738	102 : 3,212,183	3,200,562	3,200,562
3 : 3,217,403	3,195,231	76 : 3,218,739	3,218,739	103 : 3,212,184	3,200,563	3,200,563
4 : 3,222,774	3,204,335	77 : 3,218,740	3,218,740	104 : 3,212,185	3,200,564	3,200,564
5 : 3,225,438	3,224,089	78 : 3,218,741	3,218,741	105 : 3,212,186	3,200,565	3,200,565
492 : 3,196,920	3,178,813	79 : 3,218,742	3,218,742	106 : 3,212,187	3,200,566	3,200,566
1 : 3,208,139	3,216,108	80 : 3,218,743	3,218,743	107 : 3,212,188	3,200,567	3,200,567
2 : 3,209,450	3,204,336	81 : 3,218,744	3,218,744	108 : 3,212,189	3,200,568	3,200,568
3 : 3,201,865	3,222,780	82 : 3,218,745	3,218,745	109 : 3,212,190	3,200,569	3,200,569
4 : 3,224,085	3,222,780	83 : 3,218,746	3,218,746	110 : 3,212,191	3,200,570	3,200,570
494 : 3,164,897	3,206,849	84 : 3,218,747	3,218,747	111 : 3,212,192	3,200,571	3,200,571
1 : 3,197,858	3,165,830	85 : 3,218,748	3,218,748	112 : 3,212,193	3,200,572	3,200,572
2 : 3,205,574	3,203,088	86 : 3,218,749	3,218,749	113 : 3,212,194	3,200,573	3,200,573
3 : 3,174,220	3,203,089	87 : 3,218,750	3,218,750	114 : 3,212,195	3,200,574	3,200,574
4 : 3,199,190	3,199,192	88 : 3,218,751	3,218,751	115 : 3,212,196	3,200,575	3,200,575
5 : 3,175,285	3,175,286	89 : 3,218,752	3,218,752	116 : 3,212,197	3,200,576	3,200,576
6 : 3,195,230	3,169,312	90 : 3,218,753	3,218,753	117 : 3,212,198	3,200,577	3,200,577
7 : 3,165,829	3,180,023	91 : 3,218,754	3,218,754	118 : 3,212,199	3,200,578	3,200,578
8 : 3,222,775	3,189,996	92 : 3,218,755	3,218,755	119 : 3,212,200	3,200,579	3,200,579
498 : 3,182,395	3,182,395	93 : 3,218,756	3,218,756	120 : 3,212,201	3,200,580	3,200,580
1 : 3,203,085	3,180,026	94 : 3,218,757	3,218,757	121 : 3,212,202	3,200,581	3,200,581
2 : 3,217,404	3,183,589	95 : 3,218,758	3,218,758	122 : 3,212,203	3,200,582	3,200,582
3 : 3,197,859	3,209,454	96 : 3,218,759	3,218,759	123 : 3,212,204	3,200,583	3,200,583
4 : 3,222,776	3,201,178	97 : 3,218,760	3,218,760	124 : 3,212,205	3,200,584	3,200,584
501 : 3,197,859	3,203,090	98 : 3,218,761	3,218,761	125 : 3,212,206	3,200,585	3,200,585
503 : 3,222,776		99 : 3,218,762	3,218,762	126 : 3,212,207	3,200,586	3,200,586
505 : 3,208,140		100 : 3,218,763	3,218,763	127 : 3,212,208	3,200,587	3,200,587

174 : 3,183,598	201 : 3,167,869	30 : 3,221,415	122 : 3,208,158	17 : 3,209,469	2.5 : 3,218,734	53 : 3,203,118
3,183,599	3,184,860	37 : 3,180,037	3,222,799	18 : 3,210,550	5 : 3,221,421	54 : 3,218,738
3,186,094	203.12 : 3,180,033	39 : 3,182,406	3,169,050	19 : 3,170,246	5 : 3,224,117	55 : 3,184,866
3,186,095	13 : 3,187,440	40 : 3,204,341	3,212,198	20 : 3,183,600	5 : 3,225,462	56 : 3,171,219
3,188,743	13 : 3,208,154	41 : 3,220,116	3,224,110	21 : 3,175,304	3 : 3,203,039	57 : 3,218,739
3,192,636	15 : 3,177,590	42 : 3,221,416	133 : 3,167,409	22 : 3,203,114	3 : 3,205,595	58 : 3,224,121
3,193,939	18 : 3,164,910	45 : 3,169,838	3,218,732	23 : 3,208,161	3 : 3,225,463	59 : 3,180,040
3,193,940	18 : 3,181,248	3,170,774	3,220,120	24 : 3,209,470	7.1 : 3,176,416	60 : 3,171,220
3,195,238	18 : 3,188,747	3,180,038	135 : 3,217,427	25 : 3,216,131	1 : 3,177,596	61 : 3,206,875
3,196,549	18 : 3,199,208	3,186,104	137 : 3,168,383	26 : 3,200,515	3 : 3,195,245	62 : 3,217,432
3,196,550	18 : 3,206,862	3,186,105	142 : 3,214,846	27 : 3,225,460	3 : 3,201,876	63 : 3,187,447
3,196,551	18 : 3,222,794	3,186,106	145 : 3,199,221	28 : 3,175,305	6 : 3,182,407	64 : 3,209,472
3,197,878	2 : 3,182,405	3,186,107	150 : 3,192,648	29 : 3,191,317	8 : 3,205,596	65 : Re.25,806
3,197,879	204 : 3,181,249	3,192,642	151 : 3,190,012	30 : 3,204,342	8.3 : 3,204,348	66 : 3,178,838
3,199,204	3,197,880	3,196,553	153 : 3,181,251	31 : 3,184,864	9 : 3,221,422	67 : 3,206,876
3,200,503	3,197,881	3,197,884	155 : 3,192,649	32 : 3,224,113	14 : 3,175,308	68 : 3,209,473
3,203,100	3,199,207	3,197,885	156 : 3,199,224	33 : 3,197,888	19.5 : 3,177,597	69 : 3,196,562
3,206,857	3,200,511	3,200,511	164 : 3,199,223	34 : 3,220,122	24.5 : 3,199,233	70 : 3,203,119
3,206,858	3,206,155	3,205,590	168 : 3,206,870	35 : 3,208,162	28 : 3,172,217	71 : 3,206,877
3,208,150	3,176,407	3,208,156	174 : 3,209,467	36 : 3,171,217	30 : 3,175,309	72 : 3,168,785
3,208,151	3,180,034	3,210,862	156 : 3,199,224	37 : 3,192,650	32 : 3,175,309	73 : 3,208,168
3,209,459	3,169,324	3,210,863	164 : 3,170,775	38 : 3,204,344	34 : 3,169,327	74 : 3,206,879
3,209,460	3,171,213	3,213,548	168 : 3,178,838	39 : 3,204,345	35 : 3,178,835	75 : 3,184,867
3,209,461	3,172,212	3,216,126	174 : 3,169,051	40 : 3,206,872	36 : 3,182,408	76 : 3,222,803
3,210,856	3,184,861	3,217,422	185 : 3,193,945	41 : 3,212,202	37 : 3,186,112	77 : 3,196,563
3,214,841	3,225,450	3,217,423	202 : 3,225,456	42 : 3,224,115	38 : 3,196,560	78 : 3,178,839
3,216,120	3,180,035	3,218,730	212 : 3,222,800	43 : 3,224,116	39 : 3,200,518	79 : 3,181,256
3,217,393	3,180,036	3,220,117	213 : 3,216,130	44 : 3,173,218	40 : 3,216,133	80 : 3,209,474
3,220,115	3,183,602	3,221,417	218 : 3,203,113	45 : 3,177,594	41 : 3,218,735	81 : 3,209,475
3,221,412	3,186,099	3,222,798	233 : 3,172,740	46 : 3,190,013	42 : 3,218,736	82 : 3,217,433
3,221,413	3,188,748	3,224,107	237 : 3,178,832	47 : 3,197,889	43 : 3,225,464	83 : 3,195,248
3,222,791	3,199,209	3,174,228	Class 35	48 : 3,197,890	44 : 3,196,561	84 : 3,210,870
3,222,792	3,213,545	3,175,300	1 : 3,208,159	49 : 3,197,891	45 : 3,217,429	85 : 3,221,423
3,225,448	3,225,451	3,183,605	3 : 3,224,111	50 : 3,199,226	46 : 3,220,123	86 : 3,181,257
177 : 3,225,449	209 : 3,212,195	3,203,106	5 : 3,208,160	51 : 3,199,227	47 : 3,218,737	87 : 3,206,880
178 : 3,183,600	211 : 3,166,855	3,203,107	6 : 3,166,856	52 : 3,199,228	48 : 3,216,134	88 : 3,221,424
3,186,096	3,167,870	3,214,845	8 : 3,172,214	53 : 3,200,516	49 : 3,218,738	89 : 3,181,258
3,188,744	3,186,100	3,217,424	9 : 3,166,857	54 : 3,200,517	50 : 3,216,135	90 : 3,217,434
3,216,121	3,190,010	3,217,425	37 : 3,197,892	55 : 3,206,873	51 : 3,218,739	91 : 3,196,564
3,216,122	212 : 3,186,101	50 : 3,196,554	38 : 3,193,947	56 : 3,212,203	52 : 3,216,136	92 : 3,200,519
179 : 3,183,601	214 : 3,196,552	52 : 3,191,313	39 : 3,203,115	57 : 3,212,204	53 : 3,218,740	93 : 3,206,881
3,193,941	3,221,414	53 : 3,186,108	40 : 3,175,306	58 : 3,212,205	54 : 3,216,137	94 : 3,218,741
5 : 3,167,867	215 : 3,192,641	54 : 3,192,643	41 : 3,176,858	59 : 3,212,206	55 : 3,218,742	95 : 3,219,242
5 : 3,171,212	217 : 3,213,546	56 : 3,216,127	42 : 3,217,429	60 : 3,212,207	56 : 3,216,138	96 : 3,217,435
5 : 3,172,210	222 : 3,197,882	57 : 3,166,384	43 : 3,218,743	61 : 3,212,208	57 : 3,218,744	97 : 3,218,746
5 : 3,180,032	3,210,859	3,166,385	44 : 3,219,243	62 : 3,212,209	58 : 3,216,139	98 : 3,219,247
5 : 3,181,247	3,217,420	3,178,830	45 : 3,196,558	63 : 3,212,210	59 : 3,218,745	99 : 3,219,248
5 : 3,188,745	3,193,944	3,187,441	46 : 3,195,243	64 : 3,212,211	60 : 3,216,140	100 : 3,219,249
5 : 3,188,746	3,199,210	3,192,644	47 : 3,197,893	65 : 3,212,212	61 : 3,218,746	101 : 3,219,250
5 : 3,192,637	3,206,863	3,200,512	48 : 3,195,244	66 : 3,212,213	62 : 3,216,141	102 : 3,219,251
5 : 3,195,239	3,209,464	3,220,118	49 : 3,197,894	67 : 3,212,214	63 : 3,218,747	103 : 3,219,252
5 : 3,200,504	3,177,591	58 : 3,203,108	50 : 3,199,229	68 : 3,212,215	64 : 3,216,142	104 : 3,219,253
5 : 3,214,842	3,183,603	62 : 3,166,386	51 : 3,200,513	69 : 3,212,216	65 : 3,218,748	105 : 3,219,254
5 : 3,214,843	3,188,749	3,203,109	52 : 3,201,864	70 : 3,212,217	66 : 3,216,143	106 : 3,219,255
5 : 3,224,105	3,210,860	3,218,731	53 : 3,212,218	71 : 3,212,218	67 : 3,218,749	107 : 3,219,256
180 : 3,170,244	3,172,213	65 : 3,225,454	54 : 3,212,219	72 : 3,212,219	68 : 3,216,144	108 : 3,219,257
3,174,227	3,173,215	69 : 3,199,215	55 : 3,212,220	73 : 3,212,220	69 : 3,218,750	109 : 3,219,258
3,192,638	3,173,216	70 : 3,165,385	56 : 3,212,221	74 : 3,212,221	70 : 3,216,145	110 : 3,219,259
3,193,942	3,206,864	3,183,606	57 : 3,212,222	75 : 3,212,222	71 : 3,218,751	111 : 3,219,260
3,195,240	3,212,196	3,191,314	58 : 3,212,223	76 : 3,212,223	72 : 3,216,146	112 : 3,219,261
3,199,205	3,222,795	74 : 3,208,157	59 : 3,212,224	77 : 3,212,224	73 : 3,218,752	113 : 3,219,262
3,200,505	3,225,452	77 : 3,173,766	60 : 3,212,225	78 : 3,212,225	74 : 3,216,147	114 : 3,219,263
3,201,874	Class 34	1,900,011	61 : 3,212,226	79 : 3,212,226	75 : 3,218,753	115 : 3,219,264
3,208,152	4 : 3,175,299	3,225,455	62 : 3,212,227	80 : 3,212,227	76 : 3,216,148	116 : 3,219,265
3,209,462	5 : 3,169,049	80 : 3,203,110	63 : 3,212,228	81 : 3,212,228	77 : 3,218,754	117 : 3,219,266
3,210,857	3,176,408	82 : 3,173,767	64 : 3,212,229	82 : 3,212,229	78 : 3,216,149	118 : 3,219,267
3,210,858	3,178,829	85 : 3,203,111	65 : 3,212,230	83 : 3,212,230	79 : 3,218,755	119 : 3,219,268
3,224,106	3,188,750	86 : 3,178,831	66 : 3,212,231	84 : 3,212,231	80 : 3,216,150	120 : 3,219,269
181 : 3,172,211	3,205,588	87 : 3,184,862	67 : 3,212,232	85 : 3,212,232	81 : 3,218,756	121 : 3,219,270
3,187,439	3,210,861	90 : 3,214,828	68 : 3,212,233	86 : 3,212,233	82 : 3,216,151	122 : 3,219,271
3,203,103	3,218,725	3,197,886	69 : 3,212,234	87 : 3,212,234	83 : 3,218,757	123 : 3,219,272
3,216,123	3,218,726	92 : 3,170,978	70 : 3,212,235	88 : 3,212,235	84 : 3,216,152	124 : 3,219,273
182 : 3,192,639	3,218,727	3,197,886	71 : 3,212,236	89 : 3,212,236	85 : 3,218,758	125 : 3,219,274
3,218,723	3,218,727	95 : 3,174,230	72 : 3,212,237	90 : 3,212,237	86 : 3,216,153	126 : 3,219,275
184.5 : 3,170,245	3,218,728	98 : 3,199,218	73 : 3,212,238	91 : 3,212,238	87 : 3,218,759	127 : 3,219,276
5 : 3,175,298	3,222,796	99 : 3,168,382	74 : 3,212,239	92 : 3,212,239	88 : 3,216,154	128 : 3,219,277
5 : 3,186,097	3,199,211	3,197,883	75 : 3,212,240	93 : 3,212,240	89 : 3,218,760	129 : 3,219,278
5 : 3,193,943	3,205,589	3,199,212	76 : 3,212,241	94 : 3,212,241	90 : 3,216,155	130 : 3,219,279
5 : 3,206,859	3,166,383	3,224,109	77 : 3,212,242	95 : 3,212,242	91 : 3,218,761	131 : 3,219,280
185 : 3,167,868	3,186,102	95 : 3,174,230	78 : 3,212,243	96 : 3,212,243	92 : 3,216,156	132 : 3,219,281
3,200,506	3,195,241	98 : 3,199,218	79 : 3,212,244	97 : 3,212,244	93 : 3,218,762	133 : 3,219,282
3,200,507	3,197,883	99 : 3,168,382	80 : 3,212,245	98 : 3,212,245	94 : 3,216,157	134 : 3,219,283
3,200,508	3,199,212	3,220,119	81 : 3,212,246	99 : 3,212,246	95 : 3,218,763	135 : 3,219,284
3,205,586	3,206,865	103 : 3,167,407	82 : 3,212,247	100 : 3,212,247	96 : 3,216,158	136 : 3,219,285
3,206,860	3,212,197	104 : 3,188,752	83 : 3,212,248	101 : 3,212,248	97 : 3,218,764	137 : 3,219,286
189 : 3,173,214	3,214,844	3,203,112	84 : 3,212,249	102 : 3,212,249	98 : 3,216,159	138 : 3,219,287
3,186,098	3,216,125	3,209,466	85 : 3,212,250	103 : 3,212,250	99 : 3,218,765	139 : 3,219,288
3,192,640	3,218,729	3,175,301	86 : 3,212,251	104 : 3,212,251	100 : 3,216,160	140 : 3,219,289
3,203,104	3,188,751	110 : 3,176,410	87 : 3,212,252	105 : 3,212,252	101 : 3,218,766	141 : 3,219,290
3,203,105	3,225,453	3,217,426	88 : 3,212,253	106 : 3,212,253	102 : 3,216,161	142 : 3,219,291
3,205,587	3,191,312	3,206,869	89 : 3,212,254	107 : 3,212,254	103 : 3,218,767	143 : 3,219,292
3,208,153	3,199,213	111 : 3,206,869	90 : 3,212,255	108 : 3,212,255	104 : 3,216,162	144 : 3,219,293
3,212,194	3,186,103	114 : 3,205,591	91 : 3,212,256	109 : 3,212,256	105 : 3,218,768	145 : 3,219,294
191 : 3,210,855	3,206,866	115 : 3,196,555	92 : 3,212,257	110 : 3,212,257	106 : 3,216,163	146 : 3,219,295
192 : 3,166,854	3,213,547	120 : 3,199,219	93 : 3,212,258	111 : 3,212,258	107 : 3,218,769	147 : 3,219,296
194 : 3,199,206	3,176,409	3,216,128	94 : 3,212,259	112 : 3,212,259	108 : 3,216,164	148 : 3,219,297
3,200,509	3,222,797	121 : 3,199,220	95 : 3,212,260	113 : 3,212,260	109 : 3,218,770	149 : 3,219,298
197 : 3,184,859	3,183,604	122 : 3,167,408	96 : 3,212,261	114 : 3,212,261	110 : 3,216,165	150 : 3,219,299
3,206,861	3,217,421	3,176,411	97 : 3,212,262	115 : 3,212,262	111 : 3,218,771	151 : 3,219,300
199 : 3,209,463	3,216,124	3,183,607	98 : 3,212,263	116 : 3,212,263	112 : 3,216,166	152 : 3,219,301
3,216,124	3,217,419	3,192,647	99 : 3,212,264	117 : 3,212,264	113 : 3,218,772	153 : 3,219,302

Class 38 - Con.		70 : 3.209,476	152 : 3.205,599	69 : 3.191,334	17.2 : 3.216,143	43.4 : 3.170,756	63 : 3.192,021
		72 : 3.218,743	3.220,131	3.197,906	2 : 3.224,132	4 : 3.221,437	3.202,491
77 : 3.192,654		76 : 3.199,239	1 : 3.220,117	3.203,128	5 : 3.177,604	6 : 3.169,338	3.219,424
3.193,954		77 : 3.178,843	1 : 3.218,747	3.206,884	5 : 3.213,562	44.2 : 3.197,911	3.223,496
3.201,880		3.190,019	1 : 3.220,132	3.210,879	18 : 3.186,122	2 : 3.218,752	66 : 3.179,506
3.203,121		3.193,957	2 : 3.205,600	3.164,919	3.216,144	4 : 3.193,965	3.205,053
3.218,741		3.200,522	154 : 3.186,118	3.184,876	3.222,811	4 : 3.197,912	3.218,137
3.218,742		3.201,881	3.214,855	3.195,259	19 : 3.165,855	6 : 3.200,532	3.226,210
3.224,122		78 : 3.197,900	156 : 3.195,256	3.199,240	3.217,226	8 : 3.197,913	69 : 3.176,410
78 : 3.188,758		3.197,901	3.205,601	3.208,177	3.217,442	82 : 3.209,483	3.181,938
79 : 3.200,521		3.203,123	158 : 3.165,848	3.209,460	2 : 3.168,789	83 : 3.218,753	3.185,553
102.1 : 3.182,412		3.212,205	3.174,244	3.220,135	20 : 3.171,227	86 : 3.184,880	3.188,187
104 : 3.203,122		3.216,139	3.177,600	3.222,809	21.2 : 3.216,145	87 : 3.196,575	3.195,992
106 : 3.174,237		79 : 3.171,222	3.178,844	3.208,178	22 : 3.175,321	88 : 3.177,601	3.197,292
108 : 3.217,434		3.192,657	3.184,873	3.209,481	3.175,323	91 : 3.203,133	3.198,612
135 : 3.165,845		3.196,565	3.188,762	3.225,481	3.181,264	91 : 3.192,662	3.199,964
3.167,872		3.218,744	3.195,257	3.196,572	3.197,908	91 : 3.197,914	3.202,492
3.178,840		82 : 3.218,745	3.195,258	3.176,424	3.213,563	96 : 3.167,879	3.222,146
137 : 3.206,881		83 : 3.190,020	3.197,905	3.208,179	3.164,921	96 : 3.204,364	3.226,209
141 : 3.214,851		86 : 3.190,021	3.212,206	3.208,180	3.165,856	98 : 3.169,340	70 : 3.190,733
143 : 3.174,238		3.209,477	3.224,130	3.209,482	3.171,228	98 : 3.163,959	3.223,497
		3.224,127	159 : 3.217,438	3.163,952	3.171,229	54.5 : 3.200,533	3.226,211
		95 : 3.174,241	3.220,133	3.177,603	3.210,891	55 : 3.181,267	71 : 3.183,069
		96 : 3.201,882	202 : 3.187,452	3.183,617	3.222,812	3.182,419	3.183,070
		3.224,128	209 : 3.206,883	3.183,618	3.180,048	3.193,966	3.190,734
		102 : 3.171,223	300 : 3.205,602	3.206,885	3.199,242	3.199,245	3.192,022
		3.220,127	301 : 3.184,874	3.177,600	3.222,813	3.216,148	3.198,613
		104 : 3.165,846	307 : 3.204,359	3.203,129	2 : 3.190,027	3.220,140	3.199,965
		3.174,242	308 : 3.218,748	3.212,208	26 : 3.199,243	3.196,576	3.212,867
		3.192,658	310 : 3.196,567	3.196,569	3.204,362	57 : 3.191,337	3.223,495
		3.220,128	312 : 3.183,614	3.217,441	3.203,131	3.212,411	72 : 3.167,411
		106.1 : 3.169,323	3.205,603	3.187,455	27.4 : 3.201,890	3.217,444	3.207,586
		1 : 3.200,523	316 : 3.212,207	3.163,953	34 : 3.201,891	3.166,866	7

86	: Re. 25.734	243	: 3.209.491	52	: 3.186.128	33	: 3.178.857	170	: 3.210.893	334	: 3.165.867	200	: 3.216.161
	: 3.172.231		: 3.224.142		: 3.192.668		: 3.178.858		: 3.214.868	336	: 3.191.350	207	: 3.222.832
	: 3.175.327	244	: 3.172.233		: 3.192.669	34	: 3.187.467	174	: 3.187.472		: 3.206.894	209	: 3.221.453
	: 3.205.613		: 3.181.272	55	: 3.195.276		: 3.192.673		: 3.212.218	337	: 3.188.777	211	: 3.222.833
	: 3.209.487		: 3.201.898	61	: 3.164.928	37	: 3.190.043	178	: 3.205.623		: 3.200.543	213	: 3.217.450
	: 3.218.755		: 3.201.899		: 3.173.225	45	: 3.178.859	204	: 3.180.064		: 3.212.219	215	: 3.214.873
88	: 3.204.369		: 3.205.618		: 3.173.226	49	: 3.187.468		: 3.195.280	346	: 3.195.282	217	: 3.224.152
	: 3.210.885	245	: 3.214.864	64	: 3.177.618	50	: 3.192.674	206	: 3.183.632	347	: 3.216.155	220	: 3.221.454
89	: 3.218.756		: 3.225.891	66	: 3.169.347		: 3.203.137		: 3.183.633	355	: 3.225.496	221	: 3.204.378
	: 3.225.488		: 3.163.960		: 3.170.266		: 3.218.760		: 3.196.584	356	: 3.187.475		: 3.222.834
91	: 3.188.769	247	: 3.178.853		: 3.181.275	52	: 3.169.349		: 3.196.585	358	: 3.191.351	222	: 3.205.628
	: 3.213.565		: 3.199.249		: 3.187.464	55	: 3.167.887		: 3.199.252		: 3.201.904	223	: 3.222.835
95	: 3.193.967				: 3.188.772	58	: 3.187.469		: 3.201.902		: 3.201.905	224	: 3.217.451
103	: 3.191.343	Class 47		67	: 3.192.670		: 3.203.138		: 3.203.140		: 3.222.826	230	: 3.212.222
	: 3.197.918			70	: 3.182.423	59	: 3.167.888		: 3.205.624		: 3.225.497		: 3.216.162
	: 3.212.212	1	: 3.168.796	71	: 3.172.237	67	: 3.169.350		: 3.206.893	373	: 3.178.863		: 3.225.499
104	: 3.181.270		: 3.175.329	78	: 3.170.267	73	: 3.200.540		: 3.221.449		: 3.221.449	234	: 3.203.145
	: 3.186.125		: 3.200.539	80	: 3.182.424	76	: 3.208.187	209	: 3.164.933	375	: 3.166.876	235	: 3.206.901
111	: 3.165.860	1	: 3.177.615	82	: 3.181.276	87	: 3.166.874		: 3.171.236	378	: 3.166.877	241	: 3.197.929
	: 3.190.034	2	: 3.172.234		: 3.196.581		: 3.218.761		: 3.171.237	384	: 3.176.438		: 3.199.257
116	: 3.170.265	2	: 3.177.616	83	: 3.190.040	89	: 3.187.470		: 3.181.281	386	: 3.183.638	251	: 3.216.163
	: 3.205.614	2	: 3.184.887	101	: 3.163.961		: 3.181.279		: 3.190.045		: 3.224.149	255	: 3.201.908
	: 3.206.889	2	: 3.199.250	103	: 3.166.871		: 3.224.146		: 3.216.153	389	: 3.174.258	272	: 3.217.452
117	: 3.220.143	4	: 3.172.235	127	: 3.173.227	92	: 3.222.821	215	: 3.222.825	390	: 3.192.678	281	: 3.210.898
118	: 3.169.343	4	: 3.195.271		: 3.181.277	94	: 3.209.493	216	: 3.166.875	391	: 3.173.231		: 3.222.836
	: 3.172.232	4	: 3.218.758		: 3.187.465	95	: 3.182.426		: 3.192.676	392	: 3.168.799	282	: 3.199.258
	: 3.177.613	4	: 3.224.143	128	: 3.167.882	96	: 3.216.151	217	: 3.181.282	393	: 3.175.334	283	: 3

Class 52 - Con.

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538 : 3,197,933

561 : 3,222,840

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Class 53

3 : 3,186,136

12 : 3,188,778

14 : 3,163,969

19 : 3,193,978

21 : 3,221,468

21 : 3,163,970

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137 : 3,195,287

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138 : 3,163,972

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140 : 3,178,866

148 : 3,195,288

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148 : 3,190,050

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154 : 3,205,635

154 : 3,171,239

159 : Re.25,852

160 : 3,225,513

164 : 3,218,780

166 : 3,220,158

166 : 3,169,356

167 : 3,180,068

178 : 3,164,935

180 : Re.25,839

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50	: 3.164,941	377	: 3.167,900	144	: 3.199,283	142	: 3.194,005	23	: 3.203,166	35.54	: 3.167,911	35.6	: 3.190,069
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	: 3.217,476		: 3.218,791	145	: 3.167,903	145	: 3.182,440	24	: 3.174,276	54	: 3.176,463	6	: 3.191,379
	: 3.220,169		: 3.220,172		: 3.183,658		: 3.221,489		: 3.176,460	54	: 3.182,450	6	: 3.191,380
	: 3.225,856		: 3.222,856		: 3.188,791		: 3.174,272		: 3.180,081	54	: 3.191,381	6	: 3.192,708
98	: 3.201,928	384	: 3.171,243		: 3.190,065	149	: 3.183,659		: 3.183,662	54	: 3.192,713	6	: 3.192,709
104	: 3.222,852	400	: 3.175,347		: 3.209,528	152	: 3.183,659		: 3.191,378	54	: 3.192,714	6	: 3.192,710
106	: 3.192,694		: 3.186,153	147	: 3.197,953		: 3.222,860		: 3.200,581	54	: 3.195,303	6	: 3.192,711
119	: 3.173,236		: 3.192,696	148	: 3.181,291	Class 59			: 3.200,582	54	: 3.196,610	6	: 3.192,712
	: 3.210,920	04	: 3.209,527	149	: 3.195,299	1	: 3.181,292		: 3.216,190	54	: 3.197,959	6	: 3.194,012
	: 3.214,894	06	: 3.221,485	152	: 3.166,885	7	: 3.191,376		: 3.220,177	54	: 3.201,937	6	: 3.194,013
121.46	: 3.217,477	07	: 3.206,921		: 3.169,363		: 3.172,250		: 3.220,178	54	: 3.204,405	6	: 3.195,302
126	: 3.184,904	12	: 3.164,945	153	: 3.201,931		: 3.182,441		: 3.224,187	54	: 3.206,928	6	: 3.196,608
	: 3.212,247	16	: 3.193,999	156	: 3.164,950		: 3.182,442		: 3.168,805	54	: 3.209,534	6	: 3.196,609
130	: 3.165,876	17	: 3.221,486		: 3.224,181		: 3.212,253	25	: 3.194,010	54	: 3.210,935	6	: 3.197,958
	: 3.184,905	473.5	: 3.213,601	157	: 3.166,886		: 3.221,250		: 3.203,167	54	: 3.212,258	6	: 3.199,290
	: 3.190,062		: 3.225,532		: 3.175,351	13	: 3.221,493		: 3.180,082	54	: 3.212,259	6	: 3.199,291
202	: 3.165,877	504	: 3.191,373		: 3.178,877	22	: 3.175,353		: 3.186,163	54	: 3.213,611	6	: 3.200,583
	: 3.176,453	505	: 3.194,897		: 3.196,602	25	: 3.171,246		: 3.187,499	54	: 3.220,182	6	: 3.200,584
	: 3.186,152				: 3.199,284	35	: 3.222,861		: 3.187,500	54	: 3.221,498	6	: 3.200,585
	: 3.191,370	Class 57			: 3.212,251	77	: 3.170,279		: 3.199,287	54	: 3.224,190	6	: 3.201,936
	: 3.193,997				: 3.224,182	78.1	: 3.188,794		: 3.199,288	54	: 3.225,537	6	: 3.203,174
	: 3.197,949	1	: 3.195,298	160	: 3.164,951		: 3.192,704		: 3.199,289	55	: 3.165,889	6	: 3.204,402
	: 3.212,248	6	: 3.182,438		: 3.164,952		: 3.197,954		: 3.204,400	55	: 3.167,912	6	: 3.204,403
	: 3.213,600		: 3.217,482		: 3.178,878	79	: 3.173,240		: 3.205,654	55	: 3.175,356	6	: 3.204,404
	: 3.222,853	9	: 3.187,494		: 3.222,859		: 3.190,067		: 3.213,607	55	: 3.176,464	6	: 3.205,655
209	: 3.165,878	15	: 3.201,929	164	: 3.191,375		: 3.194,006		: 3.192,705	55	: 3.178,887	6	: 3.205,656
210	: 3.168,800	34	: 3.165,881		: 3.206,924		: 3.204,399		: 3.166,895	55	: 3.180,087	6	: 3.206,926
214	: 3.163,974		: 3.166,881	Class 58			: 3.208,211		: 3.172,251	55	: 3.181,293	6	: 3.206,927
221	: 3.208,208		: 3.167,901	2	: 3.177,645	80	: 3.195,301		: 3.177,649	55	: 3.182,452	6	: 3.208,214
228	: 3.217,478		: 3.169,360		: 3.177,646		: 3.218,795		: 3.180,083	55	: 3.184,917	6	: 3.209,533
235	: 3.192,695		: 3.175,348		: 3.177,647	82	: 3.183,660		: 3.183,660	55	: 3.192,715	6	: 3.210,928
	: 3.200,574		: 3.177,642		: 3.184,909		: 3.214,900		: 3.214,900	55	: 3.194,014	6	: 3.210,929
	: 3.214,895		: 3.187,495		: 3.217,485	86	: 3.205,652		: 3.170,280	55	: 3.200,586	6	: 3.210,930
241	: 3.174,268		: 3.192,697		: 3.220,174		: 3.224,185		: 3.174,277	55	: 3.200,587	6	: 3.210,931
249	: 3.176,454		: 3.194,000		: 3.220,174	91	: 3.188,795		: 3.176,461	55	: 3.205,657	6	: 3.210,932
	: 3.187,492		: 3.204,396	4	: 3.217,486	93	: 3.174,273		: 3.177,650	55	: 3.206,929	6	: 3.210,933
	: 3.218,789		: 3.225,533	5	: 3.205,650		: 3.186,164		: 3.186,164	55	: 3.208,215	6	: 3.210,934
254	: 3.178,874	35	: 3.182,439	16	: 3.175,352		: 3.188,798		: 3.192,706	55	: 3.209,535	6	: 3.212,256
	: 3.217,479		: 3.222,857		: 3.225,535		: 3.192,706		: 3.192,706	55	: 3.210,936	6	: 3.212,257
255	: 3.190,063	50	: 3.214,898	5	: 3.192,699	Class 60			: 3.197,955	55	: 3.210,937	6	: 3.214,904
	: 3.197,950	52	: 3.173,239	18	: 3.166,887	1	: 3.174,274		: 3.197,956	6	: 3.163,981	6	: 3.214,905
	: 3.197,951	53	: 3.164,946		: 3.213,603	6	: 3.196,605		: 3.201,933	6	: 3.163,982	6	: 3.214,906
	: 3.220,170		: 3.175,349	20	: 3.192,700	7	: 3.180,075		: 3.203,168	6	: 3.165,888	6	: 3.216,191
256	: 3.168,801		: 3.176,458	21.155	: 3.200,577		: 3.218,796		: 3.209,531	6	: 3.166,896	6	: 3.216,192
	: 3.184,906		: 3.204,397	155	: 3.220,175	10.5	: 3.166,890		: 3.209,532	6	: 3.166,898	6	: 3.216,193
	: 3.217,480	54	: 3.175,350	22.7	: 3.167,904		: 3.180,076		: 3.213,608	6	: 3.166,899	6	: 3.216,195
294	: 3.177,640		: 3.186,154	7	: 3.195,300		: 3.182,443		: 3.214,902	6	: 3.166,900	6	: 3.217,489
	: 3.181,289		: 3.196,600	9	: 3.165,883		: 3.188,796		: 3.220,179	6	: 3.167,909	6	: 3.218,798
	: 3.190,064		: 3.210,922	23	: 3.163,978		: 3.200,579		: 3.221,493	6	: 3.167,910	6	: 3.218,799
295	: 3.222,854	58.52	: 3.172,247		: 3.166,888		: 3.208,212		: 3.224,188	6	: 3.168,808	6	: 3.218,800
	: 3.178,435	83	: 3.165,882		: 3.167,905	13	: 3.163,984	31	: 3.168,806	6	: 3.168,809	6	: 3.218,801
	: 3.183,655	83	: 3.167,902		: 3.170,278		: 3.173,241		: 3.169,365	6	: 3.170,285	6	: 3.220,180
	: 3.184,907	83	: 3.192,698		: 3.171,244		: 3.173,242		: 3.201,934	6	: 3.170,286	6	: 3.220,181
	: 3.191,371	86	: 3.177,643		: 3.192,701		: 3.174,275		: 3.204,401	6	: 3.170,287	6	: 3.221,495
	: 3.203,161	89	: 3.163,976		: 3.192,702		: 3.178,882	35.3	: 3.164,955	6	: 3.170,288	6	: 3.221,496
	: 3.208,209	95	: 3.210,923		: 3.208,578		: 3.180,077	3	: 3.168,807	6	: 3.170,289	6	: 3.221,497
296	: 3.180,073	60	: 3.196,601		: 3.201,932		: 3.183,661	3	: 3.171,248	6	: 3.170,290	6	: 3.222,862
	: 3.214,896	67	: 3.174,270		: 3.212,252		: 3.186,161	3	: 3.173,246	6	: 3.170,291	6	: 3.222,863
	: 3.209,525	73	: 3.172,248		: 3.216,188		: 3.188,797	3	: 3.177,651	6	: 3.171,250	6	: 3.224,191
297	: 3.203,162	76	: 3.187,496		: 3.221,487		: 3.190,068	3	: 3.182,445	6	: 3.171,251	6	: 3.224,192
303	: 3.173,237		: 3.205,645		: 3.225,536		: 3.191,377	3	: 3.224,189	6	: 3.172,252	6	: 3.224,193
305	: 3.199,279		: 3.217,483	24	: 3.205,651		: 3.194,007	4	: 3.165,887	6	: 3.172,253	6	: 3.224,194
310	: 3.171,242	77.3	: 3.204,398	26	: 3.190,066		: 3.196,606	4	: 3.167,908	6	: 3.172,254	36	: 3.164,957
	: 3.224,179	3	: 3.206,922	28	: 3.169,364		: 3.200,580	4	: 3.170,281	6	: 3.172,255	37	: 3.195,304
311	: 3.212,249	45	: 3.180,074		: 3.184,910		: 3.208,213	4	: 3.170,282	6	: 3.173,249	38	: 3.225,538
313	: 3.163,975	79	: 3.169,361		: 3.186,156		: 3.217,487	4	: 3.170,283	6	: 3.173,250		: 3.218,800
314	: 3.216,184	84	: 3.163,977		: 3.186,157		: 3.221,491	4	: 3.171,249	6	: 3.173,251		: 3.218,801
327	: 3.176,456	87	: 3.194,001		: 3.196,603		: 3.221,492	4	: 3.173,247	6	: 3.173,252	39.02	: 3.167,913
328	: 3.164,942	88	: 3.166,882		: 3.218,793		: 3.224,186	4	: 3.177,652	6	: 3.173,253	02	: 3.173,357
	: 3.174,269		: 3.166,883		: 3.221,488	14	: 3.165,885	4	: 3.177,653	6	: 3.174,279	02	: 3.205,175
	: 3.178,875		: 3.224,180		: 3.224,183		: 3.180,078	4	: 3.192,707	6	: 3.174,280	05	: 3.195,305
	: 3.182,437	98	: 3.203,163	35	: 3.167,906		: 3.180,079	4	: 3.196,607	6	: 3.174,281	08	: 3.170,292
	: 3.183,656	99	: 3.169,362		: 3.188,792		: 3.203,164	4	: 3.197,957	6	: 3.174,282	09	: 3.166,901
	: 3.193,998	117	: 3.216,185		: 3.213,602	18	: 3.203,165	4	: 3.201,935	6	: 3.174,283	14	: 3.165,890
	: 3.197,952	119	: 3.172,249	38	: 3.210,924	19	: 3.165,886	4	: 3.203,169	6	: 3.175,355	14	: 3.171,252
	: 3.200,575		: 3.205,646	39.5	: 3.209,529		: 3.166,891	4	: 3.203,170	6	: 3.176,462	15	: 3.163,983
	: 3.205,644	124	: 3.205,647	42.5	: 3.186,158		: 3.167,907	4	: 3.203,171	6	: 3.177,655	15	: 3.170,293
	: 3.206,919	138	: 3.191,374	44	: 3.184,911		: 3.171,247	4	: 3.203,172	6	: 3.177,656	15	: 3.172,257
	: 3.210,921	139	: 3.205,648	50	: 3.164,953		: 3.173,243	4	: 3.212,254	6	: 3.177,657	15	: 3.181,294
	: 3.212,250	140	: 3.164,947		: 3.194,003		: 3.175,354	4	: 3.212,255	6	: 3.177,658	16	: 3.177,658
	: 3.222,855		: 3.164,948		: 3.196,604		: 3.176,459	4	: 3.213,609	6	: 3.178,884	16	: 3.166,902
	: 3.225,529		: 3.164,949		: 3.224,184		: 3.180,080	4	: 3.213,610	6	: 3.178,885	16	: 3.168,810
329	: 3.164,943		: 3.166,884	53	: 3.220,176		: 3.182,444	4	: 3.221,49				

Class 60 - Con.	52 : 3,165,891	54 : 3,192,719	59 : 3,188,812	45 : 3,169,377	72.6 : 3,203,188	15 : 3,192,730
39.18 : 3,204,407	3,167,915	3,200,594	3,201,941	3,174,289	6 : 3,217,501	17 : 3,192,731
25 : 3,180,088	3,170,296	3,200,595	3,218,807	3,186,178	7 : 3,181,302	17 : 3,192,732
25 : 3,199,293	3,172,261	3,201,940	3,220,191	3,186,179		17 : 3,192,730
27 : 3,172,259	3,173,257	3,204,412	3,224,199	3,188,815	Class 62	18 : 3,169,845
27 : 3,210,938	3,178,886	3,205,661	3,190,096	3,192,721	3 : 3,165,900	20 : 3,169,052
28 : 3,175,358	3,178,888	3,205,662	3,217,496	3,192,722		21 : 3,208,230
28 : 3,183,667	3,180,091	3,209,539	3,164,962	3,197,965		21 : 3,208,230
28 : 3,186,167	3,180,092	3,210,940	3,210,943	3,201,943		21 : 3,208,230
28 : 3,187,505	3,180,093	3,212,264	3,173,267	3,204,416		21 : 3,208,230
28 : 3,195,307	3,183,669	3,212,265	3,175,366	3,216,201		21 : 3,208,230
28 : 3,195,308	3,184,919	3,212,262	3,178,891	3,216,202		21 : 3,208,230
28 : 3,196,613	3,187,508	3,214,912	3,194,020	3,217,498		21 : 3,208,230
28 : 3,203,178	3,190,073	3,216,197	3,205,664	3,218,811		21 : 3,208,230
28 : 3,203,179	3,191,382	3,220,185	3,166,909	3,218,812		21 : 3,208,230
28 : 3,208,218	3,192,718	3,220,186	3,175,367	3,222,873		21 : 3,208,230
28 : 3,212,260	3,197,960	3,220,187	3,186,175	3,224,202		21 : 3,208,230
28 : 3,212,261	3,200,591	3,220,188	3,171,258	3,224,203		21 : 3,208,230
28 : 3,213,613	3,200,592	3,220,189	3,186,176	3,225,547		21 : 3,208,230
28 : 3,213,613	3,201,939	3,220,190	3,194,021	3,225,547		21 : 3,208,230
28 : 3,220,184	3,203,184	3,220,191	3,174,287	3,225,547		21 : 3,208,230
29 : 3,203,180	3,204,409	3,220,192	3,174,288	3,225,547		21 : 3,208,230
31 : 3,166,903	3,208,221	3,220,193	3,174,289	3,225,547		21 : 3,208,230
31 : 3,166,903	3,210,939	3,220,194	3,174,290	3,225,547		21 : 3,208,230
31 : 3,199,294	3,217,492	3,220,195	3,174,291	3,225,547		21 : 3,208,230
31 : 3,208,217	3,218,804	3,220,196	3,174,292	3,225,547		21 : 3,208,230
31 : 3,217,490	3,218,805	3,220,197	3,174,293	3,225,547		21 : 3,208,230
32 : 3,186,168	3,221,501	3,220,198	3,174,294	3,225,547		21 : 3,208,230
34 : 3,177,660	3,222,865	3,220,199	3,174,295	3,225,547		21 : 3,208,230
35 : 3,200,588	3,222,866	3,220,200	3,174,296	3,225,547		21 : 3,208,230
37 : 3,169,366	3,224,196	3,220,201	3,174,297	3,225,547		21 : 3,208,230
37 : 3,169,367	3,225,540	3,220,202	3,174,298	3,225,547		21 : 3,208,230
38 : 3,187,507	3,225,541	3,220,203	3,174,299	3,225,547		21 : 3,208,230
38 : 3,212,262	3,225,542	3,220,204	3,174,300	3,225,547		21 : 3,208,230
45 : 3,175,359	3,225,543	3,220,205	3,174,301	3,225,547		21 : 3,208,230
46 : 3,200,589	3,225,544	3,220,206	3,174,302	3,225,547		21 : 3,208,230
48 : 3,180,089	3,225,545	3,220,207	3,174,303	3,225,547		21 : 3,208,230
48 : 3,213,614	3,225,546	3,220,208	3,174,304	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,547	3,220,209	3,174,305	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,548	3,220,210	3,174,306	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,549	3,220,211	3,174,307	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,550	3,220,212	3,174,308	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,551	3,220,213	3,174,309	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,552	3,220,214	3,174,310	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,553	3,220,215	3,174,311	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,554	3,220,216	3,174,312	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,555	3,220,217	3,174,313	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,556	3,220,218	3,174,314	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,557	3,220,219	3,174,315	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,558	3,220,220	3,174,316	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,559	3,220,221	3,174,317	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,560	3,220,222	3,174,318	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,561	3,220,223	3,174,319	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,562	3,220,224	3,174,320	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,563	3,220,225	3,174,321	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,564	3,220,226	3,174,322	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,565	3,220,227	3,174,323	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,566	3,220,228	3,174,324	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,567	3,220,229	3,174,325	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,568	3,220,230	3,174,326	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,569	3,220,231	3,174,327	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,570	3,220,232	3,174,328	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,571	3,220,233	3,174,329	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,572	3,220,234	3,174,330	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,573	3,220,235	3,174,331	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,574	3,220,236	3,174,332	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,575	3,220,237	3,174,333	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,576	3,220,238	3,174,334	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,577	3,220,239	3,174,335	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,578	3,220,240	3,174,336	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,579	3,220,241	3,174,337	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,580	3,220,242	3,174,338	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,581	3,220,243	3,174,339	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,582	3,220,244	3,174,340	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,583	3,220,245	3,174,341	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,584	3,220,246	3,174,342	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,585	3,220,247	3,174,343	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,586	3,220,248	3,174,344	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,587	3,220,249	3,174,345	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,588	3,220,250	3,174,346	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,589	3,220,251	3,174,347	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,590	3,220,252	3,174,348	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,591	3,220,253	3,174,349	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,592	3,220,254	3,174,350	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,593	3,220,255	3,174,351	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,594	3,220,256	3,174,352	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,595	3,220,257	3,174,353	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,596	3,220,258	3,174,354	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,597	3,220,259	3,174,355	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,598	3,220,260	3,174,356	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,599	3,220,261	3,174,357	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,600	3,220,262	3,174,358	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,601	3,220,263	3,174,359	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,602	3,220,264	3,174,360	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,603	3,220,265	3,174,361	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,604	3,220,266	3,174,362	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,605	3,220,267	3,174,363	3,225,547		21 : 3,208,230
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51 : 3,167,914	3,225,607	3,220,269	3,174,365	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,608	3,220,270	3,174,366	3,225,547		21 : 3,208,230
51 : 3,167,914	3,225,609	3,220,271	3,174,367	3,225,547		21 : 3,208,230
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52	:	3.180.157	2	:	3.192.782		:	3.217.289	6	:	3.220.272		:	3.180.170		:	3.171.297		:	3.221.573
52	:	3.205.717	2	:	3.195.360		:	3.213.697	7	:	3.177.733		:	3.202.007		:	3.180.173		:	3.225.622
52	:	3.213.695	2	:	3.195.361		:	3.224.284	7	:	3.196.701	416	:	3.225.615		:	3.181.386	526	:	3.166.950
52	:	3.220.264	2	:	3.200.654		:	3.199.361	7	:	3.209.608	417	:	3.177.736		:	3.181.387		:	3.183.738
52	:	3.222.935	2	:	3.216.264		:	3.213.016	7	:	3.211.016		:	3.214.989		:	3.183.735		:	3.199.368
54	:	3.190.130	20	:	3.220.267		:	3.206.991	231	:	3.194.082	421	:	3.165.006		:	3.184.990		:	3.208.301
54	:	3.196.693	22	:	3.171.286		:	3.182.518	232	:	3.217.555		:	3.176.533		:	3.190.139	527	:	3.164.934
5	:	3.182.514		:	3.196.697		:	3.191.448	232	:	3.217.555		:	3.182.520		:	3.191.454		:	3.165.042
	:	3.186.239		:	3.204.469		:	3.198.024	233	:	3.217.555		:	3.214.990		:	3.192.792		:	3.167.972
	:	3.186.240	23	:	3.168.834		:	3.200.658	236	:	3.186.248		:	3.217.556		:	3.195.368		:	3.173.306
	:	3.187.586	25	:	3.178.949		:	3.165.936	236	:	3.186.248		:	3.224.288		:	3.200.666		:	3.183.739
	:	3.198.021	26	:	3.180.158		:	3.178.951	236	:	3.222.946		:	3.184.986	422	:	3.202.011		:	3.194.084
	:	3.200.652	38	:	3.174.347		:	3.187.594	242	:	3.181.384		:	3.204.479	423	:	3.202.012		:	3.203.272
	:	3.200.653	41	:	3.183.728		:	3.221.570	242	:	3.181.384		:	3.213.700	424	:	3.209.613		:	3.211.020
	:	3.211.011		:	3.208.291		:	3.186.245	11	:	3.198.025	5	:	3.174.354		:	3.211.017		:	3.217.559
	:	3.214.980		:	3.222.940		:	3.186.246	12	:	3.164.027	5	:	3.224.290		:	3.211.018		:	3.218.882
	:	3.216.262	44	:	3.171.287		:	3.203.266	13	:	3.168.835	8	:	3.164.029		:	3.220.281	531	:	3.166.951
	:	3.216.263		:	3.203.263		:	3.204.475	243	:	3.168.836	8	:	3.165.007		:	3.221.571		:	3.180.177
	:	3.225.606	48	:	3.209.605		:	3.205.724		:	3.173.301	8	:	3.167.968		:	3.224.291		:	3.181.390
	:	3.225.607	50	:	3.188.873		:	3.220.271		:	3.216.269	8	:	3.169.407		:	3.225.617		:	3.181.391
	:	3.186.241		:	3.204.470		:	3.205.725		:	3.220.273	8	:	3.170.336		:	3.225.618	532	:	3.209.614
	:	3.187.588		:	3.205.721		:	3.166.945	244	:	3.187.597	8	:	3.170.337		:	3.225.619		:	3.225.623
	:	3.192.777		:	3.205.722		:	3.175.408	250	:	3.170.335	8	:	3.171.295	473	:	3.172.301	534	:	3.184.992
	:	3.188.870		:	3.205.723		:	3.184.981	251	:	3.213.699	8	:	3.171.296		:	3.178.960		:	3.188.883
	:	3.205.718		:	3.206.989		:	3.195.362	255	:	3.192.785	8	:	3.175.418	475	:	3.180.174		:	3.218.883
	:	3.192.778	53	:	3.172.295		:	3.212.348	257	:	3.180.165	8	:	3.178.957	476	:	3.164.030	535	:	3.173.307
	:	3.214.983		:	3.199.358		:	3.216.265	325	:	3.178.953	8	:	3.178.958		:	3.180.175	540	:	3.186.253
	:	3.220.266		:	3.224.283		:	3.184.982	143	:	3.184.982	8	:	3.182.521		:	3.192.793		:	3.194.085
	:	3.176.524	54	:	3.170.332		:	3.172.297	148	:	3.170.332	330	:	3.175.411		:	3.213.705	543	:	3.222.951
	:	3.196.694		:	3.200.655		:	3.204.477	152	:	3.181.380	331	:	3.214.987		:	3.216.274	544	:	3.175.420
	:	3.204.467		:	3.214.985		:	3.187.595	156	:	3.202.003	333	:	3.184.984		:	3.184.987	545	:	3.183.740
	:	3.212.342	55	:	3.199.359		:	3.202.002	157	:	3.202.002		:	3.192.786		:	3.213.706		:	3.198.032
	:	3.214.981		:	3.222.941		:	3.222.943		:	3.202.005		:	3.197.791	478	:	3.213.706		:	3.198.032
	:	3.221.565	56	:	3.164.024		:	3.165.937	190.5	:	3.165.937	335	:	3.195.366	479	:	3.200.667	547	:	3.167.973
	:	3.190.131		:	3.225.610		:	3.185.729	5	:	3.222.944	336	:	3.200.664	480	:	3.174.358	548	:	3.174.358
	:	3.205.719	60	:	3.171.288		:	3.182.519	5	:	3.222.944		:	3.202.008		:	3.178.961		:	3.208.302
	:	3.203.261		:	3.180.159		:	3.191.451	191	:	3.182.519	337.5	:	3.202.009	481	:	3.204.481	551.1	:	3.204.481
	:	3.166.942		:	3.196.698		:	3.188.875	192	:	3.188.875	5	:	3.203.269	482	:	3.199.365	8	:	3.205.729
	:	3.203.259		:	3.198.022		:	3.224.285	197	:	3.224.285	339	:	3.175.412	483	:	3.172.302	552	:	3.167.974
	:	3.220.265	61	:	3.173.300		:	3.218.875	198	:	3.218.875		:	3.195.413		:	3.187.602		:	3.196.708
	:	3.222.936		:	3.182.517		:	3.204.476	199	:	3.204.476		:	3.176.703		:	3.202.013		:	3.209.615
	:	3.176.523		:	3.203.264		:	3.204.477		:	3.204.477	342	:	3.213.702		:	3.216.275	553	:	3.176.541
	:	3.191.445		:	3.208.292		:	3.181.381	199	:	3.181.381	349	:	3.209.609	489	:	3.176.536	557	:	3.196.709
	:	3.194.079		:	3.212.344		:	3.202.003		:	3.202.003	353	:	3.200.663	491	:	3.180.166	561	:	3.178.966
	:	3.208.288	64	:	3.181.377		:	3.224.286		:	3.224.286	354	:	3.175.414		:	3.218.879	562	:	3.224.292
	:	3.209.602	68	:	3.221.566		:	3.164.025	200	:	3.164.025	364	:	3.176.529	490	:	3.214.994	5	:	3.164.033
	:	3.222.937	79	:	3.186.242		:	3.184.983		:	3.184.983		:	3.181.385	491	:	3.208.299	5	:	3.174.355
	:	3.224.281	84	:	3.170.333		:	3.202.007		:	3.202.007		:	3.198.027	492	:	3.176.537	5	:	3.199.369
	:	3.225.608		:	3.180.160		:	3.222.945	365	:	3.164.028	425	:	3.176.538	493	:	3.165.942	5	:	3.224.293
	:	3.218.872		:	3.181.378		:	3.222.946		:	3.165.939		:	3.190.138		:	3.167.971	567	:	3.204.482
	:	3.174.346	7	:	3.181.379		:	3.213.696	202	:	3.191.449		:	3.196.705		:	3.188.880		:	3.212.353
	:	3.183.725		:	3.176.526		:	3.213.696		:	3.218.876		:	3.199.363		:	3.198.030	568	:	3.173.303
	:	3.187.587	86	:	3.176.526		:	3.188.876	203	:	3.188.876		:	3.176.531	494	:	3.206.998		:	3.175.422
	:	3.203.260		:	3.186.243		:	3.190.133	204	:	3.190.133		:	3.214.992	495	:	3.171.298		:	3.175.422
	:	3.214.982		:	3.187.591		:	3.183.730	206	:	3.183.730		:	3.220.278		:	3.182.523		:	3.175.422
	:	3.225.609		:	3.225.611		:	3.208.295		:	3.208.295	368	:	3.168.837	431	:	3.174.355	498	:	3.190.141
6	:	3.171.283		:	3.177.731		:	3.213.698		:	3.213.698		:	3.174.349		:	3.194.083		:	3.191.455
	:	3.181.374		:	3.199.360		:	3.166.946	207	:	3.166.946	432	:	3.191.453	499	:	3.170.338		:	3.192.799
	:	3.181.375		:	3.212.345		:	3.211.014		:	3.211.014		:	3.213.703	500	:	3.225.620		:	3.194.086
7	:	3.171.284		:	3.212.551		:	3.180.162	209	:	3.180.162	433	:	3.166.949	501	:	3.176.538		:	3.212.355
	:	3.176.525		:	3.220.268		:	3.195.363	210	:	3.195.363	434	:	3.183.734		:	3.183.736		:	3.214.999
	:	3.177.728		:	3.221.567		:	3.199.362		:	3.199.362	435	:	3.168.839		:	3.186.251		:	3.217.566
	:	3.182.515		:	3.211.012		:	3.166.947	216.5	:	3.166.947	437	:	3.178.959		:	3.187.603		:	3.224.299
	:	3.209.603		:	3.220.269		:	3.209.607	5	:	3.209.607	438	:	3.202.010		:	3.190.140	569	:	3.221.560
	:	3.222.938		:	3.178.950		:	3.165.002	217	:	3.165.002	440	:	3.174.356		:	3.191.455	572	:	3.208.300
10	:	3.188.871		:	3.187.592		:	3.181.382		:	3.181.382	441	:	3.216.272		:	3.192.795	573	:	Re.25.75
	:	3.191.446		:	3.192.783		:	3.181.383		:	3.181.383	443	:	3.195.367		:	3.195.369		:	Re.25.75
	:	3.192.779		:	3.204.471		:	3.216.266		:	3.216.266	446	:	3.200.665		:	3.195.370			

Class 74 - Con.		711 : 3,212,359	822 : 3,204,490	40 : 3,188,196	84.1 : 3,164,462	134 : 3,194,654	206 : 3,194,658	58 : 3,207,009	9.5 : 3,213,718	1 : 3,200,678	56 : 3,213,725	96 : 3,204,502	201.11 : 3,208,321	373 : 3,180,194
607 : 3,218,885		3,216,282	3,212,363	3,203,784	3,169,057	3,211,549	3,201,236	3,208,312	3,215,007	3,216,293	70.2 : 3,222,961	97 : 3,217,573	12 : 3,198,050	380 : 3,181,407
611 : 3,184,993	713 : 3,182,527	3,224,299	3,212,364	3,216,818	3,175,900	3,220,828	3,208,848	3,213,716	3,221,576	2 : 3,168,846	71 : 3,208,320	98 : 3,164,048	133 : 3,171,313	383 : 3,200,688
615 : 3,186,256		3,199,375	3,225,628	3,190,745	3,193,388	3,226,225	3,214,271	3,213,717	3,225,629	3,171,308	78 : 3,166,964		205 : 3,172,322	384 : 3,174,375
625 : 3,168,841	720.5 : 3,174,362	3,177,740	3,164,037	3,198,023	3,205,068	3,167,425	3,169,824	3,220,287	3,165,813	3,185,002	82 : 3,216,295		206 : 3,164,049	387 : 3,164,050
	3,169,413	3,199,376	3,222,955	3,198,623	3,218,161	3,167,425	3,169,824	3,220,288	3,166,267	3,191,473	83 : 3,222,962			389 : 3,196,725
	3,182,524	3,177,739		3,210,181	3,167,422	3,194,655	3,167,422	3,175,430	3,190,156	3,174,369	101 : 3,174,369			390 : 3,165,021
	3,196,711	3,178,965	Class 75	3,212,879	3,177,067	3,194,656	3,223,523	3,199,380	3,175,431	3,200,685	3,218,894		207 : 3,187,613	395 : 3,174,376
	3,196,712	3,192,798		3,216,819	3,186,834	3,207,598	3,223,523	3,199,380	3,175,431	3,222,966			208 : 3,177,749	396 : 3,183,755
	3,198,033	3,202,017	.5 : 3,165,396	3,216,819	3,186,834	3,207,598	3,223,523	3,199,380	3,175,431	3,222,966	Class 83		209 : 3,178,978	398 : 3,186,279
	3,198,034	3,203,279	.5 : 3,165,397	3,167,421	3,169,855	3,218,162	3,179,516	3,222,966	3,176,558	3,222,966			210 : 3,174,374	399 : 3,188,899
	3,204,484	3,195,372	.5 : 3,166,402	3,179,513	3,185,565	3,186,836	3,186,836	3,199,380	3,176,558	3,222,966			211 : 3,174,374	400 : 3,217,578
	3,212,355	3,213,712	.5 : 3,169,851	3,190,745	3,164,463	3,203,787	3,172,760	3,199,380	3,176,558	3,222,966			212 : 3,218,899	401 : 3,180,195
	3,213,708	3,216,283	.5 : 3,170,785	3,197,304	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			213 : 3,218,899	402 : 3,217,578
	3,216,278	3,221,575	.5 : 3,171,734	3,197,304	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			214 : 3,217,576	403 : 3,180,195
626 : 3,200,282	731 : 3,173,311	3,221,575	.5 : 3,172,753	3,207,597	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			215 : 3,217,576	404 : 3,180,195
	3,170,339	3,212,360	.5 : 3,186,829	3,214,266	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			216 : 3,217,576	405 : 3,180,195
	3,209,616	3,164,034	.5 : 3,193,375	3,218,155	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			217 : 3,217,576	406 : 3,180,195
	3,218,886	3,176,544	.5 : 3,194,648	3,220,825	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			218 : 3,217,576	407 : 3,180,195
640 : 3,178,963		3,181,393	.5 : 3,199,974	3,174,736	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			219 : 3,217,576	408 : 3,180,195
	3,182,525	3,199,377	.5 : 3,201,223	3,174,847	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			220 : 3,217,576	409 : 3,180,195
	3,187,605	3,199,378	.5 : 3,203,781	3,197,064	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			221 : 3,217,576	410 : 3,180,195
	3,190,145	3,202,018	.5 : 3,212,875	3,186,830	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			222 : 3,217,576	411 : 3,180,195
	3,196,713	3,215,001	.5 : 3,212,875	3,192,036	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			223 : 3,217,576	412 : 3,180,195
	3,199,370	3,175,424	.5 : 3,214,262	3,194,650	3,203,787	3,172,760	3,199,380	3,172,760	3,176,558	3,222,966			224 : 3,217,576	413 : 3,180,195
	3,200,668	3,182,528	1 : 3,185,565	3,199,975	3,224,874	3,203,787	3,199,380	3,172,760	3,176,558	3,222,966			225 : 3,217,576	414 : 3,180,195
	3,214,997	745 : 3,171,300	3,198,622	3,214,267	3,194,653	3,201,234	3,166,843	3,208,846	3,191,467	3,204,500			226 : 3,217,576	415 : 3,180,195
645 : 3,165,946		3,175,425	3,202,502	3,223,521	3,174,849	3,201,234	3,166,843	3,208,846	3,191,467	3,204,500			227 : 3,217,576	416 : 3,180,195
	3,178,964	3,204,488	3,210,180	3,198,624	3,193,382	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			228 : 3,217,576	417 : 3,180,195
650 : 3,173,309		3,218,888	3,216,817	3,183,078	3,169,856	3,224,875	3,191,460	3,218,899	3,183,745	3,186,268			229 : 3,217,576	418 : 3,180,195
	3,174,361	3,165,009	3,218,151	3,201,226	3,194,652	3,211,550	3,220,285	3,220,285	3,199,380	3,176,558			230 : 3,217,576	419 : 3,180,195
	3,191,458	3,172,305	3,218,152	3,203,785	3,190,749	3,224,875	3,191,460	3,218,899	3,183,745	3,186,268			231 : 3,217,576	420 : 3,180,195
	3,198,035	3,176,545	3,219,434	3,206,302	3,183,079	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			232 : 3,217,576	421 : 3,180,195
661 : 3,194,087		3,180,181	2 : 3,189,435	3,208,844	3,188,202	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			233 : 3,217,576	422 : 3,180,195
	3,212,356	3,182,529	3,193,376	3,211,545	3,198,626	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			234 : 3,217,576	423 : 3,180,195
	3,214,998	3,186,259	3 : 3,169,054	3,218,156	3,198,627	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			235 : 3,217,576	424 : 3,180,195
	3,220,283	3,194,089	3,169,852	3,222,161	3,198,628	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			236 : 3,217,576	425 : 3,180,195
	3,225,626	3,200,669	3,174,846	3,226,224	3,198,629	3,214,269	3,191,460	3,218,899	3,183,745	3,186,268			237 : 3,217,576	426 : 3,180,195
664 : 3,199,371		3,211,023	3,180,722	3,219,437	3,170,788	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			238 : 3,217,576	427 : 3,180,195
	3,202,014	3,215,002	3,185,564	3,212,880	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			239 : 3,217,576	428 : 3,180,195
665 : 3,166,952	751 : 3,183,741	3,193,377	3,205,063	3,212,880	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			240 : 3,217,576	429 : 3,180,195
	3,167,975	3,184,995	3,205,063	3,212,877	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			241 : 3,217,576	430 : 3,180,195
	3,176,546	3,190,147	3,212,877	3,212,877	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			242 : 3,217,576	431 : 3,180,195
	3,181,392	3,165,010	3,212,863	3,212,863	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			243 : 3,217,576	432 : 3,180,195
	3,186,257	3,180,182	3,215,520	3,215,520	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			244 : 3,217,576	433 : 3,180,195
	3,188,884	3,181,394	3,218,153	3,218,153	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			245 : 3,217,576	434 : 3,180,195
	3,190,146	3,164,035	5 : 3,166,403	3,166,403	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			246 : 3,217,576	435 : 3,180,195
	3,196,714	3,183,742	3,168,393	3,168,393	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			247 : 3,217,576	436 : 3,180,195
	3,199,372	3,172,754	3,172,754	3,172,754	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			248 : 3,217,576	437 : 3,180,195
	3,202,015	3,165,947	3,202,015	3,202,015	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			249 : 3,217,576	438 : 3,180,195
	3,203,275	3,215,003	3,215,003	3,215,003	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			250 : 3,217,576	439 : 3,180,195
	3,204,485	3,217,564	3,189,436	3,189,436	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			251 : 3,217,576	440 : 3,180,195
	3,207,002	3,217,565	3,190,743	3,190,743	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			252 : 3,217,576	441 : 3,180,195
	3,213,709	3,215,004	3,196,000	3,196,000	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			253 : 3,217,576	442 : 3,180,195
	3,213,710	3,225,627	3,203,782	3,203,782	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			254 : 3,217,576	443 : 3,180,195
	3,221,574	781 : 3,164,036	3,205,062	3,205,062	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			255 : 3,217,576	444 : 3,180,195
674 : 3,184,994		3,209,620	3,214,264	3,218,157	3,206,304	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			256 : 3,217,576	445 : 3,180,195
	3,202,284	3,166,953	3,215,521	3,215,521	3,177,069	3,222,164	3,195,374	3,218,899	3,183,745	3,186,268			257 : 3,217,576	446 : 3,180,195
675 : 3,182,526		3,204,489	3,205,731	3,219,439	3,216,823	3,216,823	3,188,891	3,188,891	3,173,313	3,173,313			258 : 3,217,576	447 : 3,180,195
	3,213,711	3,205,731	3,205,731	3,205,731	3,219,439	3,216,823	3,188,891	3,188,891	3,173,313	3,173,313			259 : 3,217,576	448 : 3,180,195
	3,214,999	3,212,361	3,172,755	3,172,755	3,220,826	3,220,826	3,181,946	3,181,946	3,173,313	3,173,313			260 : 3,217,576	449 : 3,180,195
	3,216,279	796 : 3,173,312	3,218,944	3,218,944	3,223,520	3,223,520	3,181,946	3,181,946	3,173,313	3,173,313			261 : 3,217,576	450 : 3,180,195

Class 83—Con.		269 : 3,203,297	478 : 3,185,016	69 : 3,192,820	1 : 3,192,824	14 : 3,208,332	24 : 3,188,908
639 : 3,205,749	275 : 3,186,288	275 : 3,186,288	480 : 3,220,296	70 : 3,175,462	3,192,825	3,208,333	3,188,909
640 : 3,222,973	279 : 3,175,446	279 : 3,175,446	485 : 3,218,904	3,180,203	3,195,397	3,209,642	3,188,910
649 : 3,176,572	283 : 3,169,438	283 : 3,169,438		3,181,413	3,195,397	3,211,049	3,188,911
652 : 3,217,579	291 : 3,188,902	291 : 3,188,902		3,215,026	3,196,738	3,211,049	3,191,489
658 : 3,166,967	293 : 3,204,510	293 : 3,204,510		3,174,387	3,198,051	3,211,050	3,191,490
3,167,990	307 : 3,174,380	307 : 3,174,380		3,178,989	3,198,060	3,211,051	3,191,491
3,225,638	312 : 3,187,617	312 : 3,187,617		3,172,329	3,199,400	3,213,747	3,191,492
660 : 3,205,750	313 : 3,174,381	313 : 3,174,381		3,194,106	3,200,696	3,216,310	3,192,827
662 : 3,167,991	317 : 3,173,328	317 : 3,173,328		3,202,033	3,200,697	3,216,311	3,192,828
663 : 3,188,900	318 : 3,178,722	318 : 3,178,722		3,205,756	3,200,698	3,216,312	3,194,112
3,191,478	319 : 3,194,104	319 : 3,194,104		3,208,328	3,202,039	3,216,313	3,194,113
665 : 3,172,326	322 : 3,192,817	322 : 3,192,817		3,212,387	3,202,040	3,216,314	3,194,114
672 : 3,191,479	327 : 3,187,618	327 : 3,187,618		3,212,387	3,203,305	3,216,315	3,195,399
673 : 3,170,358	334 : 3,187,618	334 : 3,187,618		3,212,387	3,203,306	3,217,590	3,195,400
3,203,295	336 : 3,217,580	336 : 3,217,580		3,212,387	3,203,307	3,217,591	3,195,401
676 : 3,169,435	337 : 3,188,903	337 : 3,188,903		3,212,387	3,203,308	3,217,592	3,195,402
681 : 3,166,968	338 : 3,188,903	338 : 3,188,903		3,212,387	3,203,309	3,217,593	3,195,403
685 : 3,215,017	339 : 3,188,903	339 : 3,188,903		3,212,387	3,203,310	3,217,594	3,195,404
690 : 3,171,319	340 : 3,188,903	340 : 3,188,903		3,212,387	3,203,311	3,217,595	3,195,405
3,172,327	341 : 3,188,903	341 : 3,188,903		3,212,387	3,203,312	3,217,596	3,195,406
3,183,757	342 : 3,188,903	342 : 3,188,903		3,212,387	3,203,313	3,217,597	3,195,407
694 : 3,215,018	343 : 3,188,903	343 : 3,188,903		3,212,387	3,203,314	3,217,598	3,195,408
700 : 3,167,992	344 : 3,188,903	344 : 3,188,903		3,212,387	3,203,315	3,217,599	3,195,409
915.5 : 3,225,639	345 : 3,188,903	345 : 3,188,903		3,212,387	3,203,316	3,217,600	3,195,410
	346 : 3,188,903	346 : 3,188,903		3,212,387	3,203,317	3,217,601	3,195,411
	347 : 3,188,903	347 : 3,188,903		3,212,387	3,203,318	3,217,602	3,195,412
	348 : 3,188,903	348 : 3,188,903		3,212,387	3,203,319	3,217,603	3,195,413
	349 : 3,188,903	349 : 3,188,903		3,212,387	3,203,320	3,217,604	3,195,414
	350 : 3,188,903	350 : 3,188,903		3,212,387	3,203,321	3,217,605	3,195,415
	351 : 3,188,903	351 : 3,188,903		3,212,387	3,203,322	3,217,606	3,195,416
	352 : 3,188,903	352 : 3,188,903		3,212,387	3,203,323	3,217,607	3,195,417
	353 : 3,188,903	353 : 3,188,903		3,212,387	3,203,324	3,217,608	3,195,418
	354 : 3,188,903	354 : 3,188,903		3,212,387	3,203,325	3,217,609	3,195,419
	355 : 3,188,903	355 : 3,188,903		3,212,387	3,203,326	3,217,610	3,195,420
	356 : 3,188,903	356 : 3,188,903		3,212,387	3,203,327	3,217,611	3,195,421
	357 : 3,188,903	357 : 3,188,903		3,212,387	3,203,328	3,217,612	3,195,422
	358 : 3,188,903	358 : 3,188,903		3,212,387	3,203,329	3,217,613	3,195,423
	359 : 3,188,903	359 : 3,188,903		3,212,387	3,203,330	3,217,614	3,195,424
	360 : 3,188,903	360 : 3,188,903		3,212,387	3,203,331	3,217,615	3,195,425
	361 : 3,188,903	361 : 3,188,903		3,212,387	3,203,332	3,217,616	3,195,426
	362 : 3,188,903	362 : 3,188,903		3,212,387	3,203,333	3,217,617	3,195,427
	363 : 3,188,903	363 : 3,188,903		3,212,387	3,203,334	3,217,618	3,195,428
	364 : 3,188,903	364 : 3,188,903		3,212,387	3,203,335	3,217,619	3,195,429
	365 : 3,188,903	365 : 3,188,903		3,212,387	3,203,336	3,217,620	3,195,430
	366 : 3,188,903	366 : 3,188,903		3,212,387	3,203,337	3,217,621	3,195,431
	367 : 3,188,903	367 : 3,188,903		3,212,387	3,203,338	3,217,622	3,195,432
	368 : 3,188,903	368 : 3,188,903		3,212,387	3,203,339	3,217,623	3,195,433
	369 : 3,188,903	369 : 3,188,903		3,212,387	3,203,340	3,217,624	3,195,434
	370 : 3,188,903	370 : 3,188,903		3,212,387	3,203,341	3,217,625	3,195,435
	371 : 3,188,903	371 : 3,188,903		3,212,387	3,203,342	3,217,626	3,195,436
	372 : 3,188,903	372 : 3,188,903		3,212,387	3,203,343	3,217,627	3,195,437
	373 : 3,188,903	373 : 3,188,903		3,212,387	3,203,344	3,217,628	3,195,438
	374 : 3,188,903	374 : 3,188,903		3,212,387	3,203,345	3,217,629	3,195,439
	375 : 3,188,903	375 : 3,188,903		3,212,387	3,203,346	3,217,630	3,195,440
	376 : 3,188,903	376 : 3,188,903		3,212,387	3,203,347	3,217,631	3,195,441
	377 : 3,188,903	377 : 3,188,903		3,212,387	3,203,348	3,217,632	3,195,442
	378 : 3,188,903	378 : 3,188,903		3,212,387	3,203,349	3,217,633	3,195,443
	379 : 3,188,903	379 : 3,188,903		3,212,387	3,203,350	3,217,634	3,195,444
	380 : 3,188,903	380 : 3,188,903		3,212,387	3,203,351	3,217,635	3,195,445
	381 : 3,188,903	381 : 3,188,903		3,212,387	3,203,352	3,217,636	3,195,446
	382 : 3,188,903	382 : 3,188,903		3,212,387	3,203,353	3,217,637	3,195,447
	383 : 3,188,903	383 : 3,188,903		3,212,387	3,203,354	3,217,638	3,195,448
	384 : 3,188,903	384 : 3,188,903		3,212,387	3,203,355	3,217,639	3,195,449
	385 : 3,188,903	385 : 3,188,903		3,212,387	3,203,356	3,217,640	3,195,450
	386 : 3,188,903	386 : 3,188,903		3,212,387	3,203,357	3,217,641	3,195,451
	387 : 3,188,903	387 : 3,188,903		3,212,387	3,203,358	3,217,642	3,195,452
	388 : 3,188,903	388 : 3,188,903		3,212,387	3,203,359	3,217,643	3,195,453
	389 : 3,188,903	389 : 3,188,903		3,212,387	3,203,360	3,217,644	3,195,454
	390 : 3,188,903	390 : 3,188,903		3,212,387	3,203,361	3,217,645	3,195,455
	391 : 3,188,903	391 : 3,188,903		3,212,387	3,203,362	3,217,646	3,195,456
	392 : 3,188,903	392 : 3,188,903		3,212,387	3,203,363	3,217,647	3,195,457
	393 : 3,188,903	393 : 3,188,903		3,212,387	3,203,364	3,217,648	3,195,458
	394 : 3,188,903	394 : 3,188,903		3,212,387	3,203,365	3,217,649	3,195,459
	395 : 3,188,903	395 : 3,188,903		3,212,387	3,203,366	3,217,650	3,195,460
	396 : 3,188,903	396 : 3,188,903		3,212,387	3,203,367	3,217,651	3,195,461
	397 : 3,188,903	397 : 3,188,903		3,212,387	3,203,368	3,217,652	3,195,462
	398 : 3,188,903	398 : 3,188,903		3,212,387	3,203,369	3,217,653	3,195,463
	399 : 3,188,903	399 : 3,188,903		3,212,387	3,203,370	3,217,654	3,195,464
	400 : 3,188,903	400 : 3,188,903		3,212,387	3,203,371	3,217,655	3,195,465
	401 : 3,188,903	401 : 3,188,903		3,212,387	3,203,372	3,217,656	3,195,466
	402 : 3,188,903	402 : 3,188,903		3,212,387	3,203,373	3,217,657	3,195,467
	403 : 3,188,903	403 : 3,188,903		3,212,387	3,203,374	3,217,658	3,195,468
	404 : 3,188,903	404 : 3,188,903		3,212,387	3,203,375	3,217,659	3,195,469
	405 : 3,188,903	405 : 3,188,903		3,212,387	3,203,376	3,217,660	3,195,470
	406 : 3,188,903	406 : 3,188,903		3,212,387	3,203,377	3,217,661	3,195,471
	407 : 3,188,903	407 : 3,188,903		3,212,387	3,203,378	3,217,662	3,195,472
	408 : 3,188,903	408 : 3,188,903		3,212,387	3,203,379	3,217,663	3,195,473
	409 : 3,188,903	409 : 3,188,903		3,212,387	3,203,380	3,217,664	3,195,474
	410 : 3,188,903	410 : 3,188,903		3,212,387	3,203,381	3,217,665	3,195,475
	411 : 3,188,903	411 : 3,188,903		3,212,387	3,203,382	3,217,666	3,195,476
	412 : 3,188,903	412 : 3,188,903		3,212,387	3,203,383	3,217,667	3,195,477
	413 : 3,188,903	413 : 3,188,903		3,212,387	3,203,384	3,217,668	3,195,478
	414 : 3,188,903	414 : 3,188,903		3,212,387	3,203,385	3,217,669	3,195,479
	415 : 3,188,903	415 : 3,188,903		3,212,387	3,203,386	3,217,670	3,195,480
	416 : 3,188,903	416 : 3,188,903		3,212,387	3,203,387	3,217,671	3,195,481
	417 : 3,188,903	417 : 3,188,903		3,212,387	3,203,388	3,217,672	3,195,482
	418 : 3,188,903	418 : 3,188,903		3,212,387	3,203,389	3,217,673	3,195,483
	419 : 3,188,903	419 : 3,188,903		3,212,387	3,203,390	3,217,674	3,195,484
	420 : 3,188,903	420 : 3,188,903		3,212,387	3,203,391	3,217,675	3,195,485
	421 : 3,188,903	421 : 3,188,903		3,212,387	3,203,392	3,217,676	3,195,486
	422 : 3,188,903	422 : 3,188,903		3,212,387	3,203,393	3,217,677	3,195,487
	423 : 3,188,903	423 : 3,188,903		3,212,387	3,203,394	3,217,678	3,195,488
	424 : 3,188,903	424 : 3,188,903		3,212,387	3,203,395	3,217,679	3,195,489
	425 : 3,188,903	425 : 3,188,903		3,212,387	3,203,396	3,217,680	3,195,490
	426 : 3,188,903	426 : 3,188,903		3,212,387	3,203,397	3,217,681	3,195,491
	427 : 3,188,903	427 : 3,188,903		3,212,387	3,203,398	3,217,682	3,195,492
	428 : 3,188,903	428 : 3,188,903		3,212,387	3,203,399	3,217,683	3,195,493
	429 : 3,188,903	429 : 3,188,903		3,212,387	3,203,400	3,217,684	3,195,494
	430 : 3,188,903	430 : 3,188,903		3,212,387	3,203,401	3,217,685	3,195,495

Class 92—Con.	1 : 3,179,025	93 : 3,203,326	50 : 3,221,619	10 : 3,221,624	45 : 3,183,813	73 : 3,211,073
48 : 3,187,640	3,188,924	3,205,794	3,225,669	3,224,350	3,185,060	3,220,330
51 : 3,172,339	3,191,507	3,212,414		3,168,023	3,185,061	3,220,331
3,176,594	3,199,418	3,205,791		3,168,024	3,194,139	3,221,631
3,179,019	3,212,412	3,165,035		3,172,344	3,221,628	3,224,352
52 : 3,181,433	3,217,613	3,165,985		3,172,345	3,224,351	3,165,046
3,188,922	3,221,612	3,195,427		3,173,348	3,225,673	3,168,026
3,213,765	3,221,612	3,195,428		3,175,479	3,165,993	3,168,060
59 : 3,168,011	3,203,322	3,196,762		3,179,027	3,174,417	3,173,351
3,207,046	3,215,047	3,199,421		3,185,054	3,174,418	3,174,419
63 : 3,218,939	3,215,047			3,185,063	3,185,066	3,175,481
64 : 3,217,611	3,215,047			3,190,202	3,187,656	3,185,066
68 : 3,190,190	3,181,438			3,191,512	3,194,142	3,194,142
74 : 3,195,420	3,183,797			3,194,137	3,188,932	3,204,543
79 : 3,199,417	3,183,798			3,195,431	3,195,433	3,211,074
85 : 3,202,062	3,202,064			3,196,768	3,199,427	3,215,054
87 : 3,203,320	3,215,048			3,196,769	3,200,728	3,216,341
90 : 3,168,012	3,221,613			3,196,770	3,205,803	3,169,465
91 : 3,202,063	3,182,570			3,198,097	3,223,012	3,170,381
3,208,358	3,183,799			3,199,426	3,198,099	3,175,907
3,223,001	3,172,342			3,204,541	3,208,364	3,179,032
92 : 3,171,333	3,185,044			3,204,542	3,209,665	3,189,450
94 : 3,175,472	3,180,237			3,205,800	3,216,340	3,198,103
3,185,041	3,186,313			3,208,363	3,223,013	3,204,544
3,187,641	3,181,440			3,213,774	3,188,933	3,224,353
3,198,089	3,181,439			3,217,622	3,194,140	3,187,657
3,200,717	3,188,925			3,223,009	3,194,141	3,165,047
3,224,345	3,194,124			3,223,010	3,194,141	3,165,047
95 : 3,180,235	3,194,125			3,223,011	3,194,141	3,165,047
99 : 3,168,855	3,195,424			3,223,012	3,194,141	3,165,047
103 : 3,173,342	3,195,425			3,223,013	3,194,141	3,165,047
3,192,836	3,203,323			3,223,014	3,194,141	3,165,047
107 : 3,181,434	3,203,323			3,223,015	3,194,141	3,165,047
109 : 3,166,991	3,203,323			3,223,016	3,194,141	3,165,047
110 : 3,181,435	3,203,323			3,223,017	3,194,141	3,165,047
3,216,313	3,203,323			3,223,018	3,194,141	3,165,047
112 : 3,168,033	3,203,323			3,223,019	3,194,141	3,165,047
117 : 3,172,340	3,203,323			3,223,020	3,194,141	3,165,047
3,181,436	3,203,323			3,223,021	3,194,141	3,165,047
118 : 3,168,014	3,203,323			3,223,022	3,194,141	3,165,047
121 : 3,198,090	3,203,323			3,223,023	3,194,141	3,165,047
122 : 3,181,437	3,203,323			3,223,024	3,194,141	3,165,047
3,195,427	3,203,323			3,223,025	3,194,141	3,165,047
124 : 3,207,047	3,203,323			3,223,026	3,194,141	3,165,047
125 : 3,179,020	3,203,323			3,223,027	3,194,141	3,165,047
3,207,048	3,203,323			3,223,028	3,194,141	3,165,047
3,215,046	3,203,323			3,223,029	3,194,141	3,165,047
128 : 3,175,473	3,203,323			3,223,030	3,194,141	3,165,047
3,185,042	3,203,323			3,223,031	3,194,141	3,165,047
3,187,642	3,203,323			3,223,032	3,194,141	3,165,047
138 : 3,182,567	3,203,323			3,223,033	3,194,141	3,165,047
146 : 3,183,794	3,203,323			3,223,034	3,194,141	3,165,047
149 : 3,166,992	3,203,323			3,223,035	3,194,141	3,165,047
151 : 3,173,343	3,203,323			3,223,036	3,194,141	3,165,047
155 : 3,177,781	3,203,323			3,223,037	3,194,141	3,165,047
3,188,923	3,203,323			3,223,038	3,194,141	3,165,047
3,204,536	3,203,323			3,223,039	3,194,141	3,165,047
156 : 3,216,334	3,203,323			3,223,040	3,194,141	3,165,047
158 : 3,179,021	3,203,323			3,223,041	3,194,141	3,165,047
164 : 3,180,236	3,203,323			3,223,042	3,194,141	3,165,047
3,185,043	3,203,323			3,223,043	3,194,141	3,165,047
3,195,422	3,203,323			3,223,044	3,194,141	3,165,047
165 : 3,171,334	3,203,323			3,223,045	3,194,141	3,165,047
168 : 3,175,474	3,203,323			3,223,046	3,194,141	3,165,047
3,186,312	3,203,323			3,223,047	3,194,141	3,165,047
169 : 3,165,983	3,203,323			3,223,048	3,194,141	3,165,047
3,223,002	3,203,323			3,223,049	3,194,141	3,165,047
171 : 3,209,659	3,203,323			3,223,050	3,194,141	3,165,047
176 : 3,187,643	3,203,323			3,223,051	3,194,141	3,165,047
180 : 3,209,660	3,203,323			3,223,052	3,194,141	3,165,047
181 : 3,166,993	3,203,323			3,223,053	3,194,141	3,165,047
182 : 3,223,003	3,203,323			3,223,054	3,194,141	3,165,047
187 : 3,173,344	3,203,323			3,223,055	3,194,141	3,165,047
194 : 3,182,568	3,203,323			3,223,056	3,194,141	3,165,047
205 : 3,169,455	3,203,323			3,223,057	3,194,141	3,165,047
212 : 3,183,795	3,203,323			3,223,058	3,194,141	3,165,047
218 : 3,212,410	3,203,323			3,223,059	3,194,141	3,165,047
220 : 3,221,611	3,203,323			3,223,060	3,194,141	3,165,047
222 : 3,223,004	3,203,323			3,223,061	3,194,141	3,165,047
223 : 3,203,321	3,203,323			3,223,062	3,194,141	3,165,047
228 : 3,175,475	3,203,323			3,223,063	3,194,141	3,165,047
229 : 3,183,796	3,203,323			3,223,064	3,194,141	3,165,047
239 : 3,173,345	3,203,323			3,223,065	3,194,141	3,165,047
243 : 3,172,341	3,203,323			3,223,066	3,194,141	3,165,047
3,176,595	3,203,323			3,223,067	3,194,141	3,165,047
3,182,569	3,203,323			3,223,068	3,194,141	3,165,047
3,190,191	3,203,323			3,223,069	3,194,141	3,165,047
244 : 3,217,612	3,203,323			3,223,070	3,194,141	3,165,047
245 : 3,168,015	3,203,323			3,223,071	3,194,141	3,165,047
248 : 3,187,644	3,203,323			3,223,072	3,194,141	3,165,047
3,212,411	3,203,323			3,223,073	3,194,141	3,165,047
252 : 3,165,032	3,203,323			3,223,074	3,194,141	3,165,047
3,179,022	3,203,323			3,223,075	3,194,141	3,165,047
258 : 3,187,645	3,203,323			3,223,076	3,194,141	3,165,047
	3,203,323			3,223,077	3,194,141	3,165,047
	3,203,323			3,223,078	3,194,141	3,165,047
	3,203,323			3,223,079	3,194,141	3,165,047
	3,203,323			3,223,080	3,194,141	3,165,047
	3,203,323			3,223,081	3,194,141	3,165,047
	3,203,323			3,223,082	3,194,141	3,165,047
	3,203,323			3,223,083	3,194,141	3,165,047
	3,203,323			3,223,084	3,194,141	3,165,047
	3,203,323			3,223,085	3,194,141	3,165,047
	3,203,323			3,223,086	3,194,141	3,165,047
	3,203,323			3,223,087	3,194,141	3,165,047
	3,203,323			3,223,088	3,194,141	3,165,047
	3,203,323			3,223,089	3,194,141	3,165,047
	3,203,323			3,223,090	3,194,141	3,165,047
	3,203,323			3,223,091	3,194,141	3,165,047
	3,203,323			3,223,092	3,194,141	3,165,047
	3,203,323			3,223,093	3,194,141	3,165,047
	3,203,323			3,223,094	3,194,141	3,165,047
	3,203,323			3,223,095	3,194,141	3,165,047
	3,203,323			3,223,096	3,194,141	3,165,047
	3,203,323			3,223,097	3,194,141	3,165,047
	3,203,323			3,223,098	3,194,141	3,165,047
	3,203,323			3,223,099	3,194,141	3,165,047
	3,203,323			3,223,100	3,194,141	3,165,047
	3,203,323			3,223,101	3,194,141	3,165,047
	3,203,323			3,223,102	3,194,141	3,165,047
	3,203,323			3,223,103	3,194,141	3,165,047
	3,203,323			3,223,104	3,194,141	3,165,047
	3,203,323			3,223,105	3,194,141	3,165,047
	3,203,323			3,223,106	3,194,141	3,165,047
	3,203,323			3,223,107	3,194,141	3,165,047
	3,203,323			3,223,108	3,194,141	3,165,047
	3,203,323			3,223,109	3,194,141	3,165,047
	3,203,323			3,223,110	3,194,141	3,165,047
	3,203,323			3,223,111	3,194,141	3,165,047
	3,203,323			3,223,112	3,194,141	3,165,047
	3,203,323			3,223,113	3,194,141	3,165,047
	3,203,323			3,223,114	3,194,141	3,165,047
	3,203,323			3,223,115	3,194,141	3,165,047
	3,203,323			3,223,116	3,194,141	3,165,047
	3,203,323			3,223,117	3,194,141	3,165,047
	3,203,323			3,223,118	3,194,141	3,165,047
	3,203,323			3,223,119	3,194,141	3,165,047
	3,203,323			3,223,120	3,194,141	3,165,047
	3,203,323			3,223,121	3,194,141	3,165,047
	3,203,323			3,223,122	3,194,141	3,165,047
	3,203,323			3,223,123	3,194,141	3,165,047
	3,203,323			3,223,124	3,194,141	3,165,047
	3,203,323			3,223,125	3,194,141	3,165,047
	3,203,323			3,223,126	3,194,141	3,165,047
	3,203,323			3,223,127	3,194,141	3,165,047
	3,203,323			3,223,128	3,194,141	3,165,047
	3,203,323			3,223,129	3,194,141	3,165,047
	3,203,323		</			

Class 99 - Con.		222	399	93	45	123	248
168	3,189,468	3,164,479	3,220,336	3,215,065	3,199,444	3,216,349	3,208,377
169	3,192,052	3,164,480	3,169,469	3,218,961	3,188,945	3,181,457	3,209,684
171	3,165,416	3,192,055	3,209,678	3,223,027	3,225,690	3,220,344	3,202,096
	3,169,068	3,193,396	3,217,635	3,181,455	3,204,553	3,172,356	3,192,856
	3,171,749	3,201,262	3,168,862	3,191,523	3,204,554	3,221,647	3,183,834
	3,172,768	3,201,263	3,169,470	3,207,068	3,196,781	3,172,357	3,170,396
	3,183,100	3,215,540	3,173,358	3,180,250	3,174,425	3,172,358	3,173,362
	3,183,101	3,201,264	3,188,940	3,183,825	3,213,785	3,215,071	3,179,046
	3,184,319	3,203,809	3,190,211	3,185,074	3,216,347	3,221,649	3,188,949
	3,185,577	3,203,810	3,191,519	3,203,343	3,173,359	3,225,691	3,207,069
	3,194,667	3,215,541	3,194,148	3,208,372	3,199,445	3,221,653	3,207,069
	3,194,668	3,209,671	3,194,149	3,213,783	3,202,091	3,169,475	3,203,348
	3,207,610	3,220,333	3,194,150	3,207,064	3,170,391	3,211,089	3,188,949
	3,210,199	3,165,054	3,199,438	3,218,962	3,170,392	3,194,153	3,194,154
	3,212,907	3,182,582	3,205,812	3,176,607	3,181,456	3,202,094	3,198,115
	3,212,931	3,202,084	3,211,081	3,218,963	3,191,526	3,181,458	3,167,009
	3,218,178	3,222,188	3,218,954	3,220,340	3,213,786	3,168,036	3,215,073
	3,222,188	3,223,021	3,219,036	3,218,964	3,215,067	3,170,393	3,216,352
	3,223,535	3,216,344	3,196,777	3,213,784	3,220,342	3,180,256	3,179,047
	3,226,236	3,219,210	3,196,776	3,199,440	3,164,083	3,198,109	3,167,010
	3,164,478	3,180,247	3,211,082	3,199,441	3,164,084	3,199,449	3,209,685
	3,177,081	3,209,672	3,183,823	3,166,010	3,166,010	3,221,648	3,209,685
	3,180,739	3,203,339	3,186,331	3,167,002	3,167,002	3,170,397	3,211,090
	3,185,579	3,217,632	3,166,006	3,167,003	3,167,003	3,172,359	3,185,090
	3,190,758	3,209,673	3,225,682	3,169,473	3,169,473	3,167,011	3,185,091
	3,222,189	3,209,674		3,171,348	3,171,348	3,173,363	3,185,092
	3,222,190	3,199,436		3,191,528	3,191,528	3,186,346	3,185,093
	3,181,956	3,223,022		3,172,352	3,172,352	3,186,347	3,185,094
	3,193,392	3,224,357		3,172,353	3,172,353	3,186,348	3,185,095
	3,205,077	3,173,357		3,174,427	3,174,427	3,186,349	3,185,096
	3,222,191	3,182,583		3,181,461	3,181,461	3,186,350	3,185,097
	3,224,277	3,209,675		3,183,832	3,183,832	3,186,351	3,185,098
	3,216,832	3,200,736		3,175,486	3,175,486	3,186,352	3,185,099
	3,222,192	3,216,345		3,176,610	3,176,610	3,186,353	3,185,100
	3,224,885	3,224,358		3,177,805	3,177,805	3,186,354	3,185,101
	3,212,907	3,176,606		3,179,044	3,179,044	3,186,355	3,185,102
	3,212,931	3,224,359		3,183,830	3,183,830	3,186,356	3,185,103
	3,218,178	3,179,035		3,190,213	3,190,213	3,186,357	3,185,104
	3,222,189	3,218,955		3,202,089	3,202,089	3,186,358	3,185,105
	3,222,190	3,220,334		3,211,085	3,211,085	3,186,359	3,185,106
	3,181,956	3,171,344		3,183,827	3,183,827	3,186,360	3,185,107
	3,193,392	3,194,147		3,216,346	3,216,346	3,186,361	3,185,108
	3,205,077	3,208,369		3,221,639	3,221,639	3,186,362	3,185,109
	3,222,191	3,193,393		3,225,683	3,225,683	3,186,363	3,185,110
	3,224,277	3,183,102		3,225,684	3,225,684	3,186,364	3,185,111
	3,216,832	3,198,639		3,221,640	3,221,640	3,186,365	3,185,112
	3,222,192	3,190,759		3,182,586	3,182,586	3,186,366	3,185,113
	3,224,885	3,192,053		3,186,332	3,186,332	3,186,367	3,185,114
	3,212,907	3,193,394		3,209,677	3,209,677	3,186,368	3,185,115
	3,212,931	3,181,957		3,213,776	3,213,776	3,186,369	3,185,116
	3,218,178	3,166,425		3,221,637	3,221,637	3,186,370	3,185,117
	3,222,189	3,166,426		3,224,360	3,224,360	3,186,371	3,185,118
	3,222,190	3,188,215		3,208,370	3,208,370	3,186,372	3,185,119
	3,181,956	3,194,669		3,174,424	3,174,424	3,186,373	3,185,120
	3,193,392	3,196,021		3,218,956	3,218,956	3,186,374	3,185,121
	3,205,077	3,201,259		3,187,663	3,187,663	3,186,375	3,185,122
	3,222,191	3,206,317		3,166,003	3,166,003	3,186,376	3,185,123
	3,224,277	3,210,201		3,215,060	3,215,060	3,186,377	3,185,124
	3,216,832	3,214,278		3,171,345	3,171,345	3,186,378	3,185,125
	3,222,192	3,219,459		3,225,680	3,225,680	3,186,379	3,185,126
	3,224,885	3,219,460		3,199,437	3,199,437	3,186,380	3,185,127
	3,212,907	3,219,461		3,217,633	3,217,633	3,186,381	3,185,128
	3,212,931	3,220,856		3,218,957	3,218,957	3,186,382	3,185,129
	3,218,178	3,166,427		3,175,482	3,175,482	3,186,383	3,185,130
	3,222,189	3,169,069		3,187,664	3,187,664	3,186,384	3,185,131
	3,222,190	3,172,769		3,196,775	3,196,775	3,186,385	3,185,132
	3,181,956	3,170,803		3,208,371	3,208,371	3,186,386	3,185,133
	3,193,392	3,193,395		3,203,341	3,203,341	3,186,387	3,185,134
	3,205,077	3,194,670		3,171,346	3,171,346	3,186,388	3,185,135
	3,222,191	3,212,908		3,213,778	3,213,778	3,186,389	3,185,136
	3,224,277	3,216,833		3,181,452	3,181,452	3,186,390	3,185,137
	3,212,907	3,190,760		3,224,361	3,224,361	3,186,391	3,185,138
	3,212,931	3,203,340		3,212,426	3,212,426	3,186,392	3,185,139
	3,218,178	3,222,193		3,217,634	3,217,634	3,186,393	3,185,140
	3,222,189	3,169,875		3,182,585	3,182,585	3,186,394	3,185,141
	3,222,190	3,174,869		3,221,638	3,221,638	3,186,395	3,185,142
	3,181,956	3,190,761		3,218,958	3,218,958	3,186,396	3,185,143
	3,193,392	3,197,312		3,224,362	3,224,362	3,186,397	3,185,144
	3,205,077	3,203,808		3,181,453	3,181,453	3,186,398	3,185,145
	3,222,191	3,219,463		3,207,059	3,207,059	3,186,399	3,185,146
	3,224,277	3,224,886		3,213,782	3,213,782	3,186,400	3,185,147
	3,212,907	3,217,770		3,202,086	3,202,086	3,186,401	3,185,148
	3,212,931	3,205,078		3,212,433	3,212,433	3,186,402	3,185,149
	3,218,178	3,185,581		3,182,587	3,182,587	3,186,403	3,185,150
	3,222,189	3,169,876		3,188,941	3,188,941	3,186,404	3,185,151
	3,222,190	3,179,464		3,215,061	3,215,061	3,186,405	3,185,152
	3,181,956	3,220,857		3,223,024	3,223,024	3,186,406	3,185,153
	3,193,392	3,219,070		3,215,062	3,215,062	3,186,407	3,185,154
	3,205,077	3,211,559		3,185,071	3,185,071	3,186,408	3,185,155
	3,222,191	3,215,537		3,218,959	3,218,959	3,186,409	3,185,156
	3,224,277	3,201,260		3,223,028	3,223,028	3,186,410	3,185,157
	3,212,907	3,201,261		3,188,942	3,188,942	3,186,411	3,185,158
	3,212,931	3,222,194		3,213,782	3,213,782	3,186,412	3,185,159
	3,218,178	3,167,437		3,202,087	3,202,087	3,186,413	3,185,160
	3,222,189	3,192,054		3,212,434	3,212,434	3,186,414	3,185,161
	3,222,190	3,215,538		3,182,588	3,182,588	3,186,415	3,185,162
	3,181,956	3,226,237		3,198,939	3,198,939	3,186,416	3,185,163
	3,193,392	3,215,539		3,209,682	3,209,682	3,186,417	3,185,164
				3,213,783	3,213,783	3,186,418	3,185,165
				3,217,634	3,217,634	3,186,419	3,185,166
				3,221,635	3,221,635	3,186,420	3,185,167
				3,225,686	3,225,686	3,186,421	3,185,168
				3,229,737	3,229,737	3,186,422	3,185,169
				3,233,788	3,233,788	3,186,423	3,185,170
				3,237,839	3,237,839	3,186,424	3,185,171
				3,241,890	3,241,890	3,186,425	3,185,172
				3,245,941	3,245,941	3,186,426	3,185,173
				3,250,000	3,250,000	3,186,427	3,185,174
				3,254,051	3,254,051	3,186,428	3,185,175
				3,258,102	3,258,102	3,186,429	3,185,176
				3,262,153	3,262,153	3,186,430	3,185,177
				3,266,204	3,266,204	3,186,431	3,185,178
				3,270,255	3,270,255	3,186,432	3,185,179
				3,274,306	3,274,306	3,186,433	3,185,180
				3,278,357	3,278,357	3,186,434	3,185,181
				3,282,408	3,282,408	3,186,435	3,185,182
				3,286,459	3,286,459	3,186,436	3,185,183
				3,290,510	3,290,510	3,186,437	3,185,184
				3,294,561	3,294,561	3,186,438	3,185,185
				3,298,612	3,298,612	3,186,439	3,185,186
				3,302,663	3,302,663	3,186,440	3,185,187
				3,306,714	3,306,714	3,186,441	3,185,188
				3,310,765	3,310,765	3,186,442	3,185,189
				3,314,816	3,314,816	3,186,443	3,185,190
				3,318,867	3,318,867	3,186,444	3,185,191
				3,322,918	3,322,918	3,186,445	3,185,192
				3,326,969	3,326,969	3,186,446	3,185,193
				3,331,020	3,331,020	3,186,447	3,185,194

Class 104—Con.		73 : 3,176,628	369 : 3,209,705	39 : 3,169,072	84 : 3,178,299	274 : 3,173,800	14 : 3,177,819
45 : 3,185,109	99 : 3,182,603	3,209,706	3,212,457	3,170,805	3,222,197	280 : 3,201,269	3,177,820
52 : 3,200,765	101 : 3,164,106	3,179,524	3,212,458	3,179,524	3,167,439	284 : 3,196,025	3,177,821
54 : 3,204,574	133 : 3,208,402	3,218,992	3,218,992	3,179,527	3,179,527	285 : 3,170,806	3,180,287
60 : 3,195,472	136 : 3,181,479	3,224,385	3,224,385	3,180,741	3,202,520	3,222,201	3,182,612
3,202,109	138 : 3,200,769	3,199,992	3,199,992	3,189,474	3,189,474	3,177,083	3,183,857
3,205,833	145 : 3,198,139	3,201,266	3,201,266	3,188,221	3,188,221	3,168,060	3,183,858
63 : 3,167,024	150 : 3,198,140	3,215,542	3,215,542	3,188,222	3,188,222	3,196,026	3,183,859
88 : 3,168,053	154 : 3,224,381	3,176,629	3,176,629	3,199,996	3,199,996	3,196,027	3,186,360
3,171,362	155 : 3,190,236	3,185,111	3,185,111	3,202,518	3,202,518	3,197,319	3,188,983
3,174,438	163 : 3,166,023	3,200,773	3,200,773	3,183,105	3,183,105	3,197,321	3,192,881
3,177,814	176 : 3,204,577	3,203,363	3,203,363	3,190,762	3,190,762	3,199,999	3,198,141
3,194,177	177 : 3,182,604	3,208,403	3,208,403	3,197,316	3,197,316	3,207,614	3,199,465
3,200,766	182 : 3,179,065	3,209,707	3,209,707	3,223,537	3,223,537	3,223,545	3,202,113
3,200,767	183 : 3,212,455	3,212,459	3,212,459	3,210,207	3,210,207	3,218,182	3,203,366
89 : 3,168,874	185 : 3,220,357	3,215,092	3,215,092	3,215,548	3,215,548	3,223,546	3,203,367
3,180,279	195 : 3,212,456	3,216,664	3,216,664	3,215,549	3,215,549	3,224,892	3,204,582
3,207,084	196 : 3,188,979	3,169,492	3,169,492	3,219,467	3,219,467	3,181,962	3,205,838
3,217,658	197 : 3,194,181	3,175,519	3,175,519	3,198,399	3,198,399	3,188,225	3,207,090
3,183,851	200 : 3,212,452	3,176,630	3,176,630	3,208,814	3,208,814	3,205,084	3,207,091
3,195,473	207 : 3,212,452	3,181,481	3,181,481	3,220,860	3,220,860	3,198,646	3,207,092
3,212,452	215 : 3,211,112	3,192,899	3,192,899	3,192,060	3,192,060	3,165,419	3,216,375
3,212,452	224.1 : 3,220,358	3,200,771	3,200,771	3,197,317	3,197,317	3,166,430	3,217,665
3,212,452	240 : 3,224,381	3,218,999	3,218,999	3,188,216	3,188,216	3,171,753	3,221,674
3,212,452	241 : 3,211,112	3,218,999	3,218,999	3,224,381	3,224,381	3,183,111	3,224,381
3,212,452	242 : 3,211,112	3,218,999	3,218,999	3,198,475	3,198,475	3,189,475	3,225,712
3,212,452	243 : 3,211,112	3,218,999	3,218,999	3,202,522	3,202,522	3,169,074	3,177,822
3,212,452	244 : 3,211,112	3,218,999	3,218,999	3,194,673	3,194,673	3,172,772	3,179,822
3,212,452	245 : 3,211,112	3,218,999	3,218,999	3,216,836	3,216,836	3,174,873	3,195,479
3,212,452	246 : 3,211,112	3,218,999	3,218,999	3,220,861	3,220,861	3,178,303	3,203,368
3,212,452	247 : 3,211,112	3,218,999	3,218,999	3,224,381	3,224,381	3,203,368	3,203,368
3,212,452	248 : 3,211,112	3,218,999	3,218,999	3,228,543	3,228,543	3,205,085	3,225,724
3,212,452	249 : 3,211,112	3,218,999	3,218,999	3,232,705	3,232,705	3,208,866	3,232,705
3,212,452	250 : 3,211,112	3,218,999	3,218,999	3,236,868	3,236,868	3,212,911	3,236,868
3,212,452	251 : 3,211,112	3,218,999	3,218,999	3,240,930	3,240,930	3,216,375	3,240,930
3,212,452	252 : 3,211,112	3,218,999	3,218,999	3,244,992	3,244,992	3,216,375	3,244,992
3,212,452	253 : 3,211,112	3,218,999	3,218,999	3,249,054	3,249,054	3,216,375	3,249,054
3,212,452	254 : 3,211,112	3,218,999	3,218,999	3,253,116	3,253,116	3,216,375	3,253,116
3,212,452	255 : 3,211,112	3,218,999	3,218,999	3,257,178	3,257,178	3,216,375	3,257,178
3,212,452	256 : 3,211,112	3,218,999	3,218,999	3,261,240	3,261,240	3,216,375	3,261,240
3,212,452	257 : 3,211,112	3,218,999	3,218,999	3,265,302	3,265,302	3,216,375	3,265,302
3,212,452	258 : 3,211,112	3,218,999	3,218,999	3,269,364	3,269,364	3,216,375	3,269,364
3,212,452	259 : 3,211,112	3,218,999	3,218,999	3,273,426	3,273,426	3,216,375	3,273,426
3,212,452	260 : 3,211,112	3,218,999	3,218,999	3,277,488	3,277,488	3,216,375	3,277,488
3,212,452	261 : 3,211,112	3,218,999	3,218,999	3,281,550	3,281,550	3,216,375	3,281,550
3,212,452	262 : 3,211,112	3,218,999	3,218,999	3,285,612	3,285,612	3,216,375	3,285,612
3,212,452	263 : 3,211,112	3,218,999	3,218,999	3,289,674	3,289,674	3,216,375	3,289,674
3,212,452	264 : 3,211,112	3,218,999	3,218,999	3,293,736	3,293,736	3,216,375	3,293,736
3,212,452	265 : 3,211,112	3,218,999	3,218,999	3,297,798	3,297,798	3,216,375	3,297,798
3,212,452	266 : 3,211,112	3,218,999	3,218,999	3,301,860	3,301,860	3,216,375	3,301,860
3,212,452	267 : 3,211,112	3,218,999	3,218,999	3,305,922	3,305,922	3,216,375	3,305,922
3,212,452	268 : 3,211,112	3,218,999	3,218,999	3,310,000	3,310,000	3,216,375	3,310,000
3,212,452	269 : 3,211,112	3,218,999	3,218,999	3,314,062	3,314,062	3,216,375	3,314,062
3,212,452	270 : 3,211,112	3,218,999	3,218,999	3,318,124	3,318,124	3,216,375	3,318,124
3,212,452	271 : 3,211,112	3,218,999	3,218,999	3,322,186	3,322,186	3,216,375	3,322,186
3,212,452	272 : 3,211,112	3,218,999	3,218,999	3,326,248	3,326,248	3,216,375	3,326,248
3,212,452	273 : 3,211,112	3,218,999	3,218,999	3,330,310	3,330,310	3,216,375	3,330,310
3,212,452	274 : 3,211,112	3,218,999	3,218,999	3,334,372	3,334,372	3,216,375	3,334,372
3,212,452	275 : 3,211,112	3,218,999	3,218,999	3,338,434	3,338,434	3,216,375	3,338,434
3,212,452	276 : 3,211,112	3,218,999	3,218,999	3,342,496	3,342,496	3,216,375	3,342,496
3,212,452	277 : 3,211,112	3,218,999	3,218,999	3,346,558	3,346,558	3,216,375	3,346,558
3,212,452	278 : 3,211,112	3,218,999	3,218,999	3,350,620	3,350,620	3,216,375	3,350,620
3,212,452	279 : 3,211,112	3,218,999	3,218,999	3,354,682	3,354,682	3,216,375	3,354,682
3,212,452	280 : 3,211,112	3,218,999	3,218,999	3,358,744	3,358,744	3,216,375	3,358,744
3,212,452	281 : 3,211,112	3,218,999	3,218,999	3,362,806	3,362,806	3,216,375	3,362,806
3,212,452	282 : 3,211,112	3,218,999	3,218,999	3,366,868	3,366,868	3,216,375	3,366,868
3,212,452	283 : 3,211,112	3,218,999	3,218,999	3,370,930	3,370,930	3,216,375	3,370,930
3,212,452	284 : 3,211,112	3,218,999	3,218,999	3,374,992	3,374,992	3,216,375	3,374,992
3,212,452	285 : 3,211,112	3,218,999	3,218,999	3,379,054	3,379,054	3,216,375	3,379,054
3,212,452	286 : 3,211,112	3,218,999	3,218,999	3,383,116	3,383,116	3,216,375	3,383,116
3,212,452	287 : 3,211,112	3,218,999	3,218,999	3,387,178	3,387,178	3,216,375	3,387,178
3,212,452	288 : 3,211,112	3,218,999	3,218,999	3,391,240	3,391,240	3,216,375	3,391,240
3,212,452	289 : 3,211,112	3,218,999	3,218,999	3,395,302	3,395,302	3,216,375	3,395,302
3,212,452	290 : 3,211,112	3,218,999	3,218,999	3,399,364	3,399,364	3,216,375	3,399,364
3,212,452	291 : 3,211,112	3,218,999	3,218,999	3,403,426	3,403,426	3,216,375	3,403,426
3,212,452	292 : 3,211,112	3,218,999	3,218,999	3,407,488	3,407,488	3,216,375	3,407,488
3,212,452	293 : 3,211,112	3,218,999	3,218,999	3,411,550	3,411,550	3,216,375	3,411,550
3,212,452	294 : 3,211,112	3,218,999	3,218,999	3,415,612	3,415,612	3,216,375	3,415,612
3,212,452	295 : 3,211,112	3,218,999	3,218,999	3,419,674	3,419,674	3,216,375	3,419,674
3,212,452	296 : 3,211,112	3,218,999	3,218,999	3,423,736	3,423,736	3,216,375	3,423,736
3,212,452	297 : 3,211,112	3,218,999	3,218,999	3,427,798	3,427,798	3,216,375	3,427,798
3,212,452	298 : 3,211,112	3,218,999	3,218,999	3,431,860	3,431,860	3,216,375	3,431,860
3,212,452	299 : 3,211,112	3,218,999	3,218,999	3,435,922	3,435,922	3,216,375	3,435,922
3,212,452	300 : 3,211,112	3,218,999	3,218,999	3,440,000	3,440,000	3,216,375	3,440,000
3,212,452	301 : 3,211,112	3,218,999	3,218,999	3,444,062	3,444,062	3,216,375	3,444,062
3,212,452	302 : 3,211,112	3,218,999	3,218,999	3,448,124	3,448,124	3,216,375	3,448,124
3,212,452	303 : 3,211,112	3,218,999	3,218,999	3,452,186	3,452,186	3,216,375	3,452,186
3,212,452	304 : 3,211,112	3,218,999	3,218,999	3,456,248	3,456,248	3,216,375	3,456,248
3,212,452	305 : 3,211,112	3,218,999	3,218,999	3,460,310	3,460,310	3,216,375	3,460,310
3,212,452	306 : 3,211,112	3,218,999	3,218,999	3,464,372	3,464,372	3,216,375	3,464,372
3,212,452	307 : 3,211,112	3,218,999	3,218,999	3,468,434	3,468,434	3,216,375	3,468,434
3,212,452	308 : 3,211,112	3,218,999	3,218,999	3,472,496	3,472,496	3,216,375	3,472,496
3,212,452	309 : 3,211,112	3,218,999	3,218,999	3,476,558	3,476,558	3,216,375	3,476,558
3,212,452	310 : 3,211,112	3,218,999	3,218,999	3,480,620	3,480,620	3,216,375	3,480,620
3,212,452	311 : 3,211,112	3,218,999	3,218,999	3,484,682	3,484,682	3,216,375	3,484,682
3,212,452	312 : 3,211,112	3,218,999	3,218,999	3,488,744	3,488,744	3,216,375	3,488,744
3,212,452	313 : 3,211,112	3,218,999	3,218,999	3,492,806	3,492,806	3,216,375	3,492,806
3,212,452	314 : 3,211,112	3,218,999	3,218,999	3,496,868	3,496,868	3,216,375	3,496,868
3,212,452	315 : 3,211,112	3,218,999	3,218,999	3,500,930	3,500,930	3,216,375	3,500,930
3,212,452	316 : 3,211,112						

Class 115—Con.

5 : 3,221,702	70 : 3,181,496	5.5 : 3,180,751	45 : 3,180,753	93.2 : 3,190,768	127 : 3,211,577	212 : 3,197,335
5 : 3,225,732	3,182,630	5 : 3,181,963	3,186,863	3 : 3,226,248	128.4 : 3,201,274	3,200,010
5 : 3,166,039	3,183,888	7 : 3,193,403	3,202,527	31 : 3,213,827	130 : 3,198,659	3,205,094
3,168,069	3,187,711	8 : 3,178,305	3,207,616	4 : 3,169,882	3,211,578	3,210,214
3,173,396	3,209,721	3,211,570	3,167,447	42 : 3,169,883	3,217,092	3,222,216
3,176,647	3,211,127	5 : 3,192,063	3,172,774	42 : 3,186,864	3,183,117	3,226,255
3,220,375	3,212,471	9 : 3,207,617	3,189,477	94 : 3,196,042	3,203,829	3,226,256
3,180,305	3,221,703	10 : 3,196,030	3,177,087	95 : 3,208,872	3,208,874	3,212,930
3,182,626	3,223,069	11 : 3,185,582	3,189,478	97 : 3,211,574	3,216,850	3,201,275
3,182,627	3,224,409	3,224,894	3,196,035	98 : 3,220,874	3,214,290	3,212,930
3,188,996	86 : 3,185,127	15 : Re.25,751	3,201,271	98 : 3,179,534	3,186,868	3,216,854
3,190,255	104 : 3,180,307	3,196,031	3,202,528	135.1 : 3,208,874	3,216,854	3,219,481
3,191,571	106 : 3,177,842	3,218,183	3,212,917	136 : 3,199,491	3,219,478	3,219,482
3,199,486	114 : 3,164,126	3,219,032	3,218,189	138.5 : 3,172,777	3,219,481	3,220,880
3,202,124	3,166,041	16 : 3,196,032	3,219,471	139.5 : 3,172,777	3,220,880	3,222,217
3,213,821	3,179,082	17 : 3,203,821	3,219,471	140 : 3,165,422	3,222,217	3,222,218
3,215,113	3,180,308	3,212,914	3,219,472	141 : 3,175,922	3,222,218	3,222,219
3,215,114	3,183,883	5 : 3,165,420	3,220,872	142 : 3,186,869	3,222,219	3,222,220
3,217,687	3,186,376	5 : 3,166,432	3,222,206	143 : 3,193,407	3,222,220	3,222,221
3,224,407	3,194,208	5 : 3,194,674	3,223,896	144 : 3,193,407	3,222,221	3,222,222
3 : 3,212,470	3,198,163	5 : 3,198,648	3,211,571	145 : 3,200,007	3,222,222	3,222,223
6.1 : 3,181,493	3,199,488	5 : 3,216,844	3,214,287	146 : 3,202,540	3,222,223	3,222,224
1 : 3,196,825	3,204,599	5 : 3,223,548	3,202,529	147 : 3,205,092	3,222,224	3,222,225
1 : 3,219,007	3,207,122	18 : 3,186,860	3,202,530	148 : 3,205,093	3,222,225	3,222,226
11 : 3,188,997	3,213,823	3,188,227	3,211,572	149 : 3,206,328	3,222,226	3,222,227
12 : 3,176,648	3,213,824	3,207,618	3,211,573	150 : 3,206,328	3,222,227	3,222,228
3,185,124	3,217,689	3,208,868	3,211,574	151 : 3,206,328	3,222,228	3,222,229
3,187,708	5 : 3,177,843	3,212,915	3,211,575	152 : 3,206,328	3,222,229	3,222,230
3,194,205	5 : 3,192,890	3,212,915	3,211,576	153 : 3,206,328	3,222,230	3,222,231
3,207,116	115 : 3,182,631	19 : 3,184,324	3,212,918	154 : 3,206,328	3,222,231	3,222,232
3,224,408	3,186,434	20 : 3,170,808	3,212,919	155 : 3,206,328	3,222,232	3,222,233
14 : 3,198,161	3,202,127	21 : 3,167,442	3,212,920	156 : 3,206,328	3,222,233	3,222,234
16 : 3,174,454	3,224,410	3,183,113	3,212,921	157 : 3,206,328	3,222,234	3,222,235
3,183,878	5 : 3,198,165	3,184,325	3,212,922	158 : 3,206,328	3,222,235	3,222,236
3,191,572	3,180,309	3,196,033	3,212,923	159 : 3,206,328	3,222,236	3,222,237
17 : 3,164,121	3,185,128	3,197,324	3,212,924	160 : 3,206,328	3,222,237	3,222,238
3,186,374	3,221,704	3,203,822	3,212,925	161 : 3,206,328	3,222,238	3,222,239
3,198,162	3,199,489	3,208,870	3,212,926	162 : 3,206,328	3,222,239	3,222,240
18 : 3,164,122	3,167,050	3,218,185	3,212,927	163 : 3,206,328	3,222,240	3,222,241
3,183,879	3,169,505	3,226,245	3,212,928	164 : 3,206,328	3,222,241	3,222,242
3,207,117	3,170,438	3,220,870	3,212,929	165 : 3,206,328	3,222,242	3,222,243
22.2 : 3,182,628	3,174,455	3,220,871	3,212,930	166 : 3,206,328	3,222,243	3,222,244
2 : 3,190,256	3,183,884	3,220,872	3,212,931	167 : 3,206,328	3,222,244	3,222,245
23 : 3,180,406	3,183,885	3,220,873	3,212,932	168 : 3,206,328	3,222,245	3,222,246
3,225,733	3,187,712	3,220,874	3,212,933	169 : 3,206,328	3,222,246	3,222,247
25 : 3,211,125	3 : 3,187,713	3,220,875	3,212,934	170 : 3,206,328	3,222,247	3,222,248
26 : 3,164,123	4 : 3,169,506	3,220,876	3,212,935	171 : 3,206,328	3,222,248	3,222,249
3 : 3,185,125	4 : 3,181,497	3,220,877	3,212,936	172 : 3,206,328	3,222,249	3,222,250
28 : 3,165,086	3,175,531	3,220,878	3,212,937	173 : 3,206,328	3,222,250	3,222,251
3,194,206	3,181,498	3,220,879	3,212,938	174 : 3,206,328	3,222,251	3,222,252
3,211,126	3,188,998	3,220,880	3,212,939	175 : 3,206,328	3,222,252	3,222,253
31 : 3,179,080	3,202,128	3,220,881	3,212,940	176 : 3,206,328	3,222,253	3,222,254
34 : 3,170,435	3,204,600	3,220,882	3,212,941	177 : 3,206,328	3,222,254	3,222,255
3,171,382	3,208,426	3,220,883	3,212,942	178 : 3,206,328	3,222,255	3,222,256
3,177,841	3,216,394	3,220,884	3,212,943	179 : 3,206,328	3,222,256	3,222,257
3,181,494	3,219,008	3,220,885	3,212,944	180 : 3,206,328	3,222,257	3,222,258
3,181,495	3,221,705	3,220,886	3,212,945	181 : 3,206,328	3,222,258	3,222,259
3,204,598	3,180,310	3,220,887	3,212,946	182 : 3,206,328	3,222,259	3,222,260
3,173,397	3,187,714	3,220,888	3,212,947	183 : 3,206,328	3,222,260	3,222,261
3,175,529	3,190,257	3,220,889	3,212,948	184 : 3,206,328	3,222,261	3,222,262
3,202,125	3,165,089	3,220,890	3,212,949	185 : 3,206,328	3,222,262	3,222,263
3,223,067	3,219,009	3,220,891	3,212,950	186 : 3,206,328	3,222,263	3,222,264
37 : 3,207,118	3,166,042	3,220,892	3,212,951	187 : 3,206,328	3,222,264	3,222,265
3,207,119	3,202,129	3,220,893	3,212,952	188 : 3,206,328	3,222,265	3,222,266
41 : 3,166,040	3,203,391	3,220,894	3,212,953	189 : 3,206,328	3,222,266	3,222,267
3,170,436	3,208,427	3,220,895	3,212,954	190 : 3,206,328	3,222,267	3,222,268
3,175,530	3,214,127	3,220,896	3,212,955	191 : 3,206,328	3,222,268	3,222,269
3,182,629	3,165,090	3,220,897	3,212,956	192 : 3,206,328	3,222,269	3,222,270
3,183,880	3,169,507	3,220,898	3,212,957	193 : 3,206,328	3,222,270	3,222,271
3,186,375	3,169,508	3,220,899	3,212,958	194 : 3,206,328	3,222,271	3,222,272
3,187,709	3,169,509	3,220,900	3,212,959	195 : 3,206,328	3,222,272	3,222,273
3,191,573	3,188,999	3,220,901	3,212,960	196 : 3,206,328	3,222,273	3,222,274
3,202,126	3,189,000	3,220,902	3,212,961	197 : 3,206,328	3,222,274	3,222,275
3,216,392	3,194,209	3,220,903	3,212,962	198 : 3,206,328	3,222,275	3,222,276
3,216,393	3,212,472	3,220,904	3,212,963	199 : 3,206,328	3,222,276	3,222,277
3,217,688	3,212,473	3,220,905	3,212,964	200 : 3,206,328	3,222,277	3,222,278
42 : 3,179,081	3,171,384	3,220,906	3,212,965	201 : 3,206,328	3,222,278	3,222,279
49 : 3,170,437	3,207,123	3,220,907	3,212,966	202 : 3,206,328	3,222,279	3,222,280
63 : 3,205,852	3,181,499	3,220,908	3,212,967	203 : 3,206,328	3,222,280	3,222,281
70 : 3,165,087	3,207,124	3,220,909	3,212,968	204 : 3,206,328	3,222,281	3,222,282
3,171,383	3,183,886	3,220,910	3,212,969	205 : 3,206,328	3,222,282	3,222,283
3,213,822	3,209,722	3,220,911	3,212,970	206 : 3,206,328	3,222,283	3,222,284
	3,217,690	3,220,912	3,212,971	207 : 3,206,328	3,222,284	3,222,285
	3,219,010	3,220,913	3,212,972	208 : 3,206,328	3,222,285	3,222,286
	3,225,734	3,220,914	3,212,973	209 : 3,206,328	3,222,286	3,222,287
		3,220,915	3,212,974	210 : 3,206,328	3,222,287	3,222,288
		3,220,916	3,212,975	211 : 3,206,328	3,222,288	3,222,289
		3,220,917	3,212,976	212 : 3,206,328	3,222,289	3,222,290
		3,220,918	3,212,977	213 : 3,206,328	3,222,290	3,222,291
		3,220,919	3,212,978	214 : 3,206,328	3,222,291	3,222,292
		3,220,920	3,212,979	215 : 3,206,328	3,222,292	3,222,293
		3,220,921	3,212,980	216 : 3,206,328	3,222,293	3,222,294
		3,220,922	3,212,981	217 : 3,206,328	3,222,294	3,222,295
		3,220,923	3,212,982	218 : 3,206,328	3,222,295	3,222,296
		3,220,924	3,212,983	219 : 3,206,328	3,222,296	3,222,297
		3,220,925	3,212,984	220 : 3,206,328	3,222,297	3,222,298
		3,220,926	3,212,985	221 : 3,206,328	3,222,298	3,222,299
		3,220,927	3,212,986	222 : 3,206,328	3,222,299	3,222,300
		3,220,928	3,212,987	223 : 3,206,328	3,222,300	3,222,301
		3,220,929	3,212,988	224 : 3,206,328	3,222,301	3,222,302
		3,220,930	3,212,989	225 : 3,206,328	3,222,302	3,222,303
		3,220,931	3,212,990	226 : 3,206,328	3,222,303	3,222,304
		3,220,932	3,212,991	227 : 3,206,328	3,222,304	3,222,305
		3,220,933	3,212,992	228 : 3,206,328	3,222,305	3,222,306
		3,220,934	3,212,993	229 : 3,206,328	3,222,306	3,222,307
		3,220,935	3,212,994	230 : 3,206,328	3,222,307	3,222,308
		3,220,936	3,212,995	231 : 3,206,328	3,222,308	3,222,309
		3,220,937	3,212,996	232 : 3,206,328	3,222,309	3,222,310
		3,220,938	3,212,997	233 : 3,206,328	3,222,310	3,222,311
		3,220,939	3,212,998	234 : 3,206,328	3,222,311	3,222,312
		3,220,940	3,212,999	235 : 3,206,328	3,222,312	3,222,313
		3,220,941	3,213,000	236 : 3,206,328	3,222,313	3,222,314
		3,220,942	3,213,001	237 : 3,206,328	3,222,314	3,222,315
		3,220,943	3,213,002	238 : 3,206,328	3,222,315	3,222,316
		3,220,944	3,213,003	239 : 3,206,328	3,222,316	3,222,317
		3,220,945	3,213,004	240 : 3,206,328	3,222,317	3,222,318

Class 123 - Con.	148 : 3,168,891	29 : 3,213,844	92 : 3,219,025	369 : 3,185,145	6 : 3,190,286	134 : 3,191,599
102 : 3,204,620	3,181,522	30 : 3,199,502	94 : 3,181,525	375 : 3,203,416	9 : 3,195,536	136 : 3,223,084
103 : 3,172,398	3,182,648	41 : 3,225,755	95 : 3,199,505	378 : 3,164,148	17 : 3,176,682	3,203,417
119 : 3,164,141	3,183,902	47 : 3,189,015	96 : 3,169,519	381 : 3,209,746	20 : 3,168,093	3,207,153
3,165,097	3,186,397	49 : 3,204,627	101 : 3,198,190	383 : 3,183,905	23 : 3,196,865	3,211,143
3,166,059	3,202,146	3,207,147	109 : 3,177,865	391 : 3,217,704	24 : 3,194,230	3,217,708
3,166,060	3,203,412	3,209,741	110 : 3,164,145		24 : 3,167,067	3,219,033
3,166,061	3,208,443		3,171,399	Class 127	3,177,866	3,223,085
3,166,062	3,209,739	Class 125	3,171,400	4 : 3,171,758	3,179,106	3,224,441
3,167,060	3,213,840	3 : 3,179,103	3,200,810	9 : 3,214,293	3,191,594	3,224,442
3,168,084	3,215,133	11 : 3,167,064	3,223,078	13 : 3,197,336	3,217,707	3,224,443
3,170,447	3,216,408	3,220,396	3,170,453	16 : 3,220,883	3,220,405	3,196,871
3,170,448	3,220,396	3,175,547	3,209,744	19 : 3,205,095	3,219,029	3,180,333
3,172,399	3,171,396	3,187,736	3,212,492	25 : 3,176,683	3,176,693	3,181,531
3,173,408	3,173,409	3,187,737	3,164,146	26 : 3,189,025	3,176,693	3,182,658
3,174,469	3,215,131	3,204,628	3,171,402	29 : Re.25,871	3,190,291	3,220,458
3,175,545	3,164,142	3,208,445	3,175,551	28 : 3,197,337	3,211,151	3,220,459
3,175,546	3,165,100	3,212,491	3,189,017	30 : 3,169,888	3,211,151	3,220,460
3,176,670	3,168,892	3,213,845	3,189,018	32 : 3,173,807	3,211,151	3,220,461
3,177,858	3,170,450	3,220,399	3,190,280	33 : 3,173,807	3,211,151	3,220,462
3,179,095	3,170,451	3,221,727	3,200,811	34 : 3,173,807	3,211,151	3,220,463
3,179,096	3,172,400	3,164,144	3,174,475	35 : 3,193,409	3,211,151	3,220,464
3,179,097	3,173,410	3,168,893	3,190,281	36 : 3,175,552	3,211,151	3,220,465
3,179,098	3,180,330	3,170,454	3,170,454	37 : 3,214,294	3,211,151	3,220,466
3,180,329	3,182,649	3,187,738	3,187,738	38 : 3,212,932	3,211,151	3,220,467
3,181,519	3,182,650	3,175,548	3,176,675	39 : 3,212,932	3,211,151	3,220,468
3,182,646	3,187,734	3,176,675	3,176,675	40 : 3,212,932	3,211,151	3,220,469
3,182,647	3,190,276	3,221,728	3,176,675	41 : 3,212,932	3,211,151	3,220,470
3,186,389	3,204,624	3,168,087	3,192,919	42 : 3,212,932	3,211,151	3,220,471
3,186,390	3,205,881	3,187,739	3,189,019	43 : 3,212,932	3,211,151	3,220,472
3,186,391	3,216,409	3,190,278	3,189,020	44 : 3,212,932	3,211,151	3,220,473
3,186,392	3,219,021	3,191,589	3,170,455	45 : 3,212,932	3,211,151	3,220,474
3,187,732	3,220,397	3,202,147	3,168,089	46 : 3,212,932	3,211,151	3,220,475
3,189,012	3,223,076	3,211,141	3,170,456	47 : 3,212,932	3,211,151	3,220,476
3,190,274	3,174,471		3,186,801	48 : 3,212,932	3,211,151	3,220,477
3,191,585	3,212,487		3,200,812	49 : 3,212,932	3,211,151	3,220,478
3,191,586	3,213,841		3,208,446	50 : 3,212,932	3,211,151	3,220,479
3,194,224	3,187,735	4 : 3,171,398	3,219,026	51 : 3,212,932	3,211,151	3,220,480
3,198,185	3,189,017	5 : 3,174,473	3,224,428	52 : 3,212,932	3,211,151	3,220,481
3,198,186	3,190,277	6 : 3,174,473	3,224,429	53 : 3,212,932	3,211,151	3,220,482
3,202,145	3,205,882	7 : 3,192,916	3,182,653	54 : 3,212,932	3,211,151	3,220,483
3,203,410	3,165,101	8 : 3,169,516	3,170,457	55 : 3,212,932	3,211,151	3,220,484
3,204,621	3,170,452	9 : 3,220,400	3,187,742	56 : 3,212,932	3,211,151	3,220,485
3,209,738	3,185,147	10 : 3,177,864	3,164,147	57 : 3,212,932	3,211,151	3,220,486
3,211,139	3,198,188	11 : 3,179,104	3,198,191	58 : 3,212,932	3,211,151	3,220,487
3,212,485	3,224,426	12 : 3,225,756	3,219,027	59 : 3,212,932	3,211,151	3,220,488
3,212,486	3,198,188	13 : 3,179,104	3,198,191	60 : 3,212,932	3,211,151	3,220,489
3,224,424	3,177,861	14 : 3,167,065	3,219,027	61 : 3,212,932	3,211,151	3,220,490
3,225,752	3,177,861	15 : 3,167,065	3,191,590	62 : 3,212,932	3,211,151	3,220,491
3,225,753	3,177,861	16 : 3,167,065	3,191,590	63 : 3,212,932	3,211,151	3,220,492
3,225,754	3,177,861	17 : 3,167,065	3,191,590	64 : 3,212,932	3,211,151	3,220,493
3,225,755	3,177,861	18 : 3,167,065	3,191,590	65 : 3,212,932	3,211,151	3,220,494
3,225,756	3,177,861	19 : 3,167,065	3,191,590	66 : 3,212,932	3,211,151	3,220,495
3,225,757	3,177,861	20 : 3,167,065	3,191,590	67 : 3,212,932	3,211,151	3,220,496
3,225,758	3,177,861	21 : 3,167,065	3,191,590	68 : 3,212,932	3,211,151	3,220,497
3,225,759	3,177,861	22 : 3,167,065	3,191,590	69 : 3,212,932	3,211,151	3,220,498
3,225,760	3,177,861	23 : 3,167,065	3,191,590	70 : 3,212,932	3,211,151	3,220,499
3,225,761	3,177,861	24 : 3,167,065	3,191,590	71 : 3,212,932	3,211,151	3,220,500
3,225,762	3,177,861	25 : 3,167,065	3,191,590	72 : 3,212,932	3,211,151	3,220,501
3,225,763	3,177,861	26 : 3,167,065	3,191,590	73 : 3,212,932	3,211,151	3,220,502
3,225,764	3,177,861	27 : 3,167,065	3,191,590	74 : 3,212,932	3,211,151	3,220,503
3,225,765	3,177,861	28 : 3,167,065	3,191,590	75 : 3,212,932	3,211,151	3,220,504
3,225,766	3,177,861	29 : 3,167,065	3,191,590	76 : 3,212,932	3,211,151	3,220,505
3,225,767	3,177,861	30 : 3,167,065	3,191,590	77 : 3,212,932	3,211,151	3,220,506
3,225,768	3,177,861	31 : 3,167,065	3,191,590	78 : 3,212,932	3,211,151	3,220,507
3,225,769	3,177,861	32 : 3,167,065	3,191,590	79 : 3,212,932	3,211,151	3,220,508
3,225,770	3,177,861	33 : 3,167,065	3,191,590	80 : 3,212,932	3,211,151	3,220,509
3,225,771	3,177,861	34 : 3,167,065	3,191,590	81 : 3,212,932	3,211,151	3,220,510
3,225,772	3,177,861	35 : 3,167,065	3,191,590	82 : 3,212,932	3,211,151	3,220,511
3,225,773	3,177,861	36 : 3,167,065	3,191,590	83 : 3,212,932	3,211,151	3,220,512
3,225,774	3,177,861	37 : 3,167,065	3,191,590	84 : 3,212,932	3,211,151	3,220,513
3,225,775	3,177,861	38 : 3,167,065	3,191,590	85 : 3,212,932	3,211,151	3,220,514
3,225,776	3,177,861	39 : 3,167,065	3,191,590	86 : 3,212,932	3,211,151	3,220,515
3,225,777	3,177,861	40 : 3,167,065	3,191,590	87 : 3,212,932	3,211,151	3,220,516
3,225,778	3,177,861	41 : 3,167,065	3,191,590	88 : 3,212,932	3,211,151	3,220,517
3,225,779	3,177,861	42 : 3,167,065	3,191,590	89 : 3,212,932	3,211,151	3,220,518
3,225,780	3,177,861	43 : 3,167,065	3,191,590	90 : 3,212,932	3,211,151	3,220,519
3,225,781	3,177,861	44 : 3,167,065	3,191,590	91 : 3,212,932	3,211,151	3,220,520
3,225,782	3,177,861	45 : 3,167,065	3,191,590	92 : 3,212,932	3,211,151	3,220,521
3,225,783	3,177,861	46 : 3,167,065	3,191,590	93 : 3,212,932	3,211,151	3,220,522
3,225,784	3,177,861	47 : 3,167,065	3,191,590	94 : 3,212,932	3,211,151	3,220,523
3,225,785	3,177,861	48 : 3,167,065	3,191,590	95 : 3,212,932	3,211,151	3,220,524
3,225,786	3,177,861	49 : 3,167,065	3,191,590	96 : 3,212,932	3,211,151	3,220,525
3,225,787	3,177,861	50 : 3,167,065	3,191,590	97 : 3,212,932	3,211,151	3,220,526
3,225,788	3,177,861	51 : 3,167,065	3,191,590	98 : 3,212,932	3,211,151	3,220,527
3,225,789	3,177,861	52 : 3,167,065	3,191,590	99 : 3,212,932	3,211,151	3,220,528
3,225,790	3,177,861	53 : 3,167,065	3,191,590	100 : 3,212,932	3,211,151	3,220,529
3,225,791	3,177,861	54 : 3,167,065	3,191,590	101 : 3,212,932	3,211,151	3,220,530
3,225,792	3,177,861	55 : 3,167,065	3,191,590	102 : 3,212,932	3,211,151	3,220,531
3,225,793	3,177,861	56 : 3,167,065	3,191,590	103 : 3,212,932	3,211,151	3,220,532
3,225,794	3,177,861	57 : 3,167,065	3,191,590	104 : 3,212,932	3,211,151	3,220,533
3,225,795	3,177,861	58 : 3,167,065	3,191,590	105 : 3,212,932	3,211,151	3,220,534
3,225,796	3,177,861	59 : 3,167,065	3,191,590	106 : 3,212,932	3,211,151	3,220,535
3,225,797	3,177,861	60 : 3,167,065	3,191,590	107 : 3,212,932	3,211,151	3,220,536
3,225,798	3,177,861	61 : 3,167,065	3,191,590	108 : 3,212,932	3,211,151	3,220,537
3,225,799	3,177,861	62 : 3,167,065	3,191,590	109 : 3,212,932	3,211,151	3,220,538
3,225,800	3,177,861	63 : 3,167,065	3,191,590	110 : 3,212,932	3,211,151	3,220,539
3,225,801	3,177,861	64 : 3,167,065	3,191,590	111 : 3,212,932	3,211,151	3,220,540
3,225,802	3,177,861	65 : 3,167,065	3,191,590	112 : 3,212,932	3,211,151	3,220,541
3,225,803	3,177,861	66 : 3,167,065	3,191,590	113 : 3,212,932	3,211,151	3,220,542
3,225,804	3,177,861	67 : 3,167,065	3,191,590	114 : 3,212,932	3,211,151	3,220,543
3,225,805	3,177,861	68 : 3,167,065	3,191,590	115 : 3,212,932	3,211,151	3,220,544
3,225,806	3,177,861	69 : 3,167,065	3,191,590	116 : 3,212,932	3,211,151	3,220,545
3,225,807	3,177,861	70 : 3,167,065	3,191,590	117 : 3,212,932	3,211,151	3,220,546
3,225,808	3,177,861	71 : 3,167,065	3,191,590	118 : 3,212,932	3,211,151	3,220,547
3,225,809	3,177,861	72 : 3,167,065	3,191,590	119 : 3,212,932	3,211,151	3,220,548
3,225,810	3,177,861	73 : 3,167,065	3,191,590	120 : 3,212,932	3,211,151	3,220,549
3,225,811	3,177,861	74 : 3,167,065	3,191,590	121 : 3,212,932	3,211,151	3,220,550
3,225,812	3,177,861	75 : 3,167,065	3,191,590	122 : 3,212,932	3,211,151	3,220,551
3,225,813	3,177,861	76 : 3,167,065	3,191,590	123 : 3,212,932	3,211,151	3,220,552
3,225,814	3,177,861	77 : 3,167				

Class 136—Con.	89	3,186,873	8	3,219,046	85	3,198,202	218	3,180,352	329.3	3,203,443	468	3,182,681	540	3,192,949	604	3,223,121	625.31	3,207,181	41	3,217,750	54	3,191,634	409	3,177,904	117	3,225,796
4	3,196,047	3,186,874	9	3,216,434	9	3,216,434	3,208,465	3,183,924	332	3,172,421	469	3,189,040	541	3,205,909	606	3,182,684	33	3,167,094	42	3,191,633	55	3,220,440	416	3,208,483	118	3,168,118
3,197,342	3,197,342	3,197,342	10	Re. 25,913	10	Re. 25,913	3,208,466	3,189,037	334	3,212,518	3,199,532	3,194,260	542	3,179,482	607	3,179,482	33	3,175,584	43	3,189,125	56	3,173,452	419	3,213,893	119	3,213,893
3,197,343	3,197,343	3,197,343	11	3,216,435	11	3,216,435	3,209,049	3,207,171	340	3,170,478	3,199,533	3,211,174	543	3,168,108	608	3,192,952	33	3,219,063	44	3,194,272	57	3,192,957	420	3,212,530	120	3,169,559
3,201,277	3,201,277	3,201,277	12	3,171,419	12	3,171,419	3,223,105	3,198,204	341	3,172,420	3,199,533	3,211,174	544	3,168,108	609	3,192,952	33	3,219,063	45	3,194,272	58	3,192,957	421	3,169,558	121	3,199,548
3,201,278	3,201,278	3,201,278	13	3,181,544	13	3,181,544	3,223,105	3,202,171	342	3,172,420	3,199,533	3,211,174	545	3,168,108	610	3,192,952	33	3,219,063	46	3,194,272	59	3,186,439	422	3,172,430	122	3,211,188
3,207,629	3,207,629	3,207,629	14	3,173,811	14	3,173,811	3,223,106	3,202,171	343	3,172,420	3,199,533	3,211,174	546	3,168,108	611	3,192,952	33	3,219,063	47	3,194,272	60	3,186,439	423	3,172,430	123	3,211,188
3,208,878	3,208,878	3,208,878	15	3,173,812	15	3,173,812	3,223,106	3,202,171	344	3,172,420	3,199,533	3,211,174	547	3,168,108	612	3,192,952	33	3,219,063	48	3,194,272	61	3,186,439	424	3,172,430	124	3,211,188
3,210,216	3,210,216	3,210,216	16	3,173,812	16	3,173,812	3,223,106	3,202,171	345	3,172,420	3,199,533	3,211,174	548	3,168,108	613	3,192,952	33	3,219,063	49	3,194,272	62	3,186,439	425	3,172,430	125	3,211,188
3,211,586	3,211,586	3,211,586	17	3,173,812	17	3,173,812	3,223,106	3,202,171	346	3,172,420	3,199,533	3,211,174	549	3,168,108	614	3,192,952	33	3,219,063	50	3,194,272	63	3,186,439	426	3,172,430	126	3,211,188
3,214,295	3,214,295	3,214,295	18	3,173,812	18	3,173,812	3,223,106	3,202,171	347	3,172,420	3,199,533	3,211,174	550	3,168,108	615	3,192,952	33	3,219,063	51	3,194,272	64	3,186,439	427	3,172,430	127	3,211,188
3,215,561	3,215,561	3,215,561	19	3,173,812	19	3,173,812	3,223,106	3,202,171	348	3,172,420	3,199,533	3,211,174	551	3,168,108	616	3,192,952	33	3,219,063	52	3,194,272	65	3,186,439	428	3,172,430	128	3,211,188
3,216,446	3,216,446	3,216,446	20	3,173,812	20	3,173,812	3,223,106	3,202,171	349	3,172,420	3,199,533	3,211,174	552	3,168,108	617	3,192,952	33	3,219,063	53	3,194,272	66	3,186,439	429	3,172,430	129	3,211,188
3,169,889	3,169,889	3,169,889	21	3,173,812	21	3,173,812	3,223,106	3,202,171	350	3,172,420	3,199,533	3,211,174	553	3,168,108	618	3,192,952	33	3,219,063	54	3,194,272	67	3,186,439	430	3,172,430	130	3,211,188
3,170,818	3,170,818	3,170,818	22	3,173,812	22	3,173,812	3,223,106	3,202,171	351	3,172,420	3,199,533	3,211,174	554	3,168,108	619	3,192,952	33	3,219,063	55	3,194,272	68	3,186,439	431	3,172,430	131	3,211,188
3,172,782	3,172,782	3,172,782	23	3,173,812	23	3,173,812	3,223,106	3,202,171	352	3,172,420	3,199,533	3,211,174	555	3,168,108	620	3,192,952	33	3,219,063	56	3,194,272	69	3,186,439	432	3,172,430	132	3,211,188
3,172,783	3,172,783	3,172,783	24	3,173,812	24	3,173,812	3,223,106	3,202,171	353	3,172,420	3,199,533	3,211,174	556	3,168,108	621	3,192,952	33	3,219,063	57	3,194,272	70	3,186,439	433	3,172,430	133	3,211,188
3,173,808	3,173,808	3,173,808	25	3,173,812	25	3,173,812	3,223,106	3,202,171	354	3,172,420	3,199,533	3,211,174	557	3,168,108	622	3,192,952	33	3,219,063	58	3,194,272	71	3,186,439	434	3,172,430	134	3,211,188
3,174,878	3,174,878	3,174,878	26	3,173,812	26	3,173,812	3,223,106	3,202,171	355	3,172,420	3,199,533	3,211,174	558	3,168,108	623	3,192,952	33	3,219,063	59	3,194,272	72	3,186,439	435	3,172,430	135	3,211,188
3,174,879	3,174,879	3,174,879	27	3,173,812	27	3,173,812	3,223,106	3,202,171	356	3,172,420	3,199,533	3,211,174	559	3,168,108	624	3,192,952	33	3,219,063	60	3,194,272	73	3,186,439	436	3,172,430	136	3,211,188
3,177,096	3,177,096	3,177,096	28	3,173,812	28	3,173,812	3,223,106	3,202,171	357	3,172,420	3,199,533	3,211,174	560	3,168,108	625	3,192,952	33	3,219,063	61	3,194,272	74	3,186,439	437	3,172,430	137	3,211,188
3,185,590	3,185,590	3,185,590	29	3,173,812	29	3,173,812	3,223,106	3,202,171	358	3,172,420	3,199,533	3,211,174	561	3,168,108	626	3,192,952	33	3,219,063	62	3,194,272	75	3,186,439	438	3,172,430	138	3,211,188
3,193,412	3,193,412	3,193,412	30	3,173,812	30	3,173,812	3,223,106	3,202,171	359	3,172,420	3,199,533	3,211,174	562	3,168,108	627	3,192,952	33	3,219,063	63	3,194,272	76	3,186,439	439	3,172,430	139	3,211,188
3,194,684	3,194,684	3,194,684	31	3,173,812	31	3,173,812	3,223,106	3,202,171	360	3,172,420	3,199,533	3,211,174	563	3,168,108	628	3,192,952	33	3,219,063	64	3,194,272	77	3,186,439	440	3,172,430	140	3,211,188
3,201,279	3,201,279	3,201,279	32	3,173,812	32	3,173,812	3,223,106	3,202,171	361	3,172,420	3,199,533	3,211,174	564	3,168,108	629	3,192,952	33	3,219,063	65	3,194,272	78	3,186,439	441	3,172,430	141	3,211,188
3,202,544	3,202,544	3,202,544	33	3,173,812	33	3,173,812	3,223,106	3,202,171	362	3,172,420	3,199,533	3,211,174	565	3,168,108	630	3,192,952	33	3,219,063	66	3,194,272	79	3,186,439	442	3,172,430	142	3,211,188
3,207,630	3,207,630	3,207,630	34	3,173,812	34	3,173,812	3,223,106	3,202,171	363	3,172,420	3,199,533	3,211,174	566	3,168,108	631	3,192,952	33	3,219,063	67	3,194,272	80	3,186,439	443	3,172,430	143	3,211,188
3,208,879	3,208,879	3,208,879	35	3,173,812	35	3,173,812	3,223,106	3,202,171	364	3,172,420	3,199,533	3,211,174	567	3,168,108	632	3,192,952	33	3,219,063	68	3,194,272	81	3,186,439	444	3,172,430	144	3,211,188
3,214,296	3,214,296	3,214,296	36	3,173,812	36	3,173,812	3,223,106	3,202,171	365	3,172,420	3,199,533	3,211,174	568	3,168,108	633	3,192,952	33	3,219,063	69	3,194,272	82	3,186,439	445	3,172,430	145	3,211,188
3,216,859	3,216,859	3,216,859	37	3,173,812	37	3,173,812	3,223,106	3,202,171	366	3,172,420	3,199,533	3,211,174	569	3,168,108	634	3,192,952	33	3,219,063	70	3,194,272	83	3,186,439	446	3,172,430	146	3,211,188
3,167,456	3,167,456	3,167,456	38	3,173,812	38	3,173,812	3,223,106	3,202,171	367	3,172,420	3,199,533	3,211,174	570	3,168,108	635	3,192,952	33	3,219,063	71	3,194,272	84	3,186,439	447	3,172,430	147	3,211,188
3,170,820	3,170,820	3,170,820	39	3,173,812	39	3,173,812	3,223,106	3,202,171	368	3,172,420	3,199,533	3,211,174	571	3,168,108	636	3,192,952	33	3,219,063	72	3,194,272	85	3,186,439	448	3,172,430	148	3,211,188
3,170,821	3,170,821	3,170,821	40	3,173,812	40	3,173,812	3,223,106	3,202,171	369	3,172,420	3,199,533	3,211,174	572	3,168,108	637	3,192,952	33	3,219,063	73	3,194,272	86	3,186,439	449	3,172,430	149	3,211,188
3,172,555	3,172,555	3,172,555	41	3,173,812	41	3,173,812	3,223,106	3,202,171	370	3,172,420	3,199,533	3,211,174	573	3,168,108	638	3,192,952	33	3,219,063	74	3,194,272	87	3,186,439	450	3,172,430	150	3,211,188
3,172,556	3,172,556	3,172,556	42	3,173,812	42	3,173,812	3,223,106	3,202,171	371	3,172,420	3,199,533	3,211,174	574	3,168,108	639	3,192,952	33	3,219,063	75	3,194,272	88	3,186,439	451	3,172,430	151	3,211,188
3,172,557	3,172,557	3,172,557	43	3,173,812	43	3,173,812	3,223,106	3,202,171	372	3,172,420	3,199,533	3,211,174	575	3,168,108	640	3,192,952	33	3,219,063	76	3,194,272	89	3,186,439	452	3,172,430	152	3,211,188
3,172,558	3,172,558	3,172,558	44	3,173,812	44	3,173,812	3,223,106	3,202,171	373	3,172,420	3,199,533	3,211,174	576	3,168,108	641	3,192,952	33	3,219,063	77	3,194,272	90	3,186,439	453	3,172,430	153	3,211,188
3,172,559	3,172,559	3,172,559	45	3,173,812	45	3,173,812	3,223,106	3,202,171	374	3,172,420	3,199,533	3,211,174	577	3,168,108	642	3,192,952	33	3,219,063	78	3,194,272	91	3,186,439	454	3,172,430	154	3,211,188
3,172,560	3,172,560	3,172,560	46	3,173,812	46	3,173,812	3,223,106	3,202,171	375	3,172,420	3,199,533	3,211,174	578	3,168,108	6											

CLASSIFICATION OF PATENTS

1	3.181,982	38	3.166,111	41.76:	3.205,927	370	3.175,599	73	3.184,353	211	3.193,427	345	3.229,507
2	3.184,352		3.220,452	76:	3.208,496		3.190,338		3.184,354	212	3.170,828		3.216,259
3	3.185,601	39	3.187,795		3.171,461	374	3.190,339		3.193,424		3.212,948	349	3.184,359
4	3.189,495	40	3.212,546		3.180,388	396	3.195,605		3.222,235	213	3.210,229	350	3.181,988
5	3.189,496		3.224,480		3.180,389	397	3.172,447		3.224,915	214	3.211,600		3.192,903
6	3.193,421	42	3.176,743		3.180,390	406	3.212,551		3.224,916	216	3.202,561	351	3.212,950
7	3.196,059	48	3.180,385		3.189,077	407	3.164,194	78	3.166,454	217	3.192,090	352	3.208,895
8	3.197,349	50	3.172,444		3.195,600	410	3.224,484		3.170,827		3.207,644	353	3.192,094
9	3.196,677	51	3.202,192		3.204,680	427	3.291,655	79	3.174,887		3.218,211	355	3.193,430
10	3.203,842		3.215,182		3.209,806		3.213,915		3.175,936	218	3.177,105		3.194,709
11	3.203,843	52	3.164,189		3.209,807				3.196,062	220	3.219,506	357	3.220,908
12	3.214,304		3.166,112		3.217,774				3.205,106	222	3.205,110	360	3.194,710
13	3.214,305		3.185,197		3.221,794				3.219,502		3.214,315	361	3.169,895
14	3.214,306		3.185,198						3.220,901	228	3.180,776	362	3.218,216
15	3.218,206		3.189,074						3.220,902		3.210,230	363	3.186,890
16	3.223,563		3.191,652						3.210,227	82	3.210,227	364	3.179,548
17	3.202,556		3.199,563		7	3.219,090			3.220,903	83	3.220,903		3.183,138
18	3.212,944	21	3.202,193		9	3.217,775			3.180,775	85	3.180,775	366	3.197,353
19	3.164,504	22	3.217,771		12	3.182,705			3.211,598	233	3.181,986	369	3.173,820
20	3.189,497		3.225,806		56	3.179,145	2	3.171,463	3.206,344	234	3.189,504	373	3.162,459
21	3.201,291				154	3.187,797		3.172,448	3.223,565	242	3.194,706	380	3.166,459
22	3.219,498					3.204,681		3.172,449	88	3.166,455		3.172,798	
23	3.219,499							3.172,450	89	3.175,937	244	3.165,432	
24	3.205,103	7	3.173,466		157	3.208,497	3	3.172,455		3.175,937		3.188,259	
25	3.183,132		3.176,744		158	3.180,391	10	3.172,455		3.175,937		3.194,711	
26	3.193,422		3.182,702			3.212,548	21	3.165,140		3.192,086		3.205,114	
27	3.173,818	35	3.182,703		166	3.205,928	24	3.168,129		3.208,892	231	3.189,505	
28	3.164,505	36	3.189,075		176	3.224,481	31	3.168,919		3.215,575	233	3.181,986	
29	3.219,500		3.195,599		182	3.200,869	32	3.164,195	93	3.200,021	244	3.192,090	
30	3.203,844		3.202,194		187	3.205,929	35	3.164,195	94	3.215,243		3.215,578	
31	3.216,872		3.203,453			3.224,483	40	3.172,451	96	3.198,679		3.218,212	
32	3.172,795		3.220,453		191	3.183,956	45	3.172,451	101	Re:25,711		3.219,507	
33	3.183,133		3.221,790		209	3.168,916	46	3.172,452	108	3.165,431	245	3.220,907	
34	3.214,307		3.225,807			3.176,748	48	3.172,453		3.201,296	246	3.216,878	
35	3.177,102	8	3.164,190			3.177,917	64	3.167,108		3.224,917	247	3.192,091	
36	3.222,232		3.208,493			3.185,199	79	3.172,454	116	3.218,208		3.194,707	
37	3.198,678		3.167,105			3.196,920	81	3.170,502	117	3.183,134		3.212,949	
38	3.180,771	11	3.169,565			3.199,567	86	3.171,464	123	3.218,209	250	3.177,106	
39	3.166,450		3.174,521		210	3.179,146				3.223,566		3.178,329	
40	3.166,451		3.174,522			3.179,147				3.183,135		3.205,111	
41	3.166,452		3.203,460			3.186,466				3.192,087	252	3.205,112	
42	3.180,772		3.212,547			3.196,921	2	3.224,914	132	3.217,769		3.226,274	
43	3.208,890		3.216,475			3.212,549	3	3.175,935		3.186,885	253	3.178,330	
44	3.212,945	15	3.225,808			3.217,776		3.177,103	133	3.178,327		3.186,886	
45	3.190,777		3.225,809			3.220,455		3.192,084	136	3.212,947		3.223,567	
46	3.180,773	19	3.176,745		211	3.182,706		3.194,702	137	3.188,254	254	3.167,464	
47	3.178,325	21	3.171,459			3.215,184		3.200,020		3.193,425		3.174,889	
48	3.214,308		3.177,914			3.217,777		3.215,574	139	3.222,236	255	3.223,568	
49	3.208,891		3.191,653		214	3.212,550	6	3.205,104	143	3.192,088	257	3.211,601	
50	3.222,233		3.198,229		216	3.190,335	7	3.186,883		3.194,705	264	3.218,213	
51	3.211,596		3.198,230		218	3.198,233	8	3.210,226		3.211,599	267	3.173,819	
52	3.166,453	109	3.199,564		221	3.192,983	11	3.179,543		3.218,210	269	3.166,457	
53	3.202,557		3.202,195		225	3.208,498		3.206,344	145	3.206,345		3.172,796	
			3.208,494		226	3.186,467	13	3.167,463	148	3.219,503	271	3.165,433	
			3.221,791			3.205,930		3.186,884	152	3.219,504	272	3.174,890	
			3.176,746		22	3.176,746	14	3.177,104	154	3.184,355		3.179,546	
			3.186,464		233	3.170,500		3.193,423		3.216,875	273	3.164,508	
			3.196,918			3.190,337		3.214,309		3.219,505		3.188,257	
			3.179,141		236	3.165,137		3.214,310	155	3.189,499	279	3.194,708	
			3.179,142		237	3.175,597		3.216,873		3.189,500		3.207,645	
			3.208,495			3.211,205	17	3.181,983		3.214,313		3.218,214	
			3.209,805		241	3.181,586		3.194,703	159	3.184,356	280	3.219,507	
			3.168,915		307	3.208,499	18	3.205,105	160	3.214,314	281	3.207,646	
			3.190,333		310	3.179,148	20	3.171,765	162	3.190,780	283	3.172,797	
			3.194,292		313	3.195,601		3.171,767		3.202,560	287	3.169,086	
			3.199,565		327	3.194,293		3.171,767		3.215,576	289	3.185,605	
			3.182,704			3.208,500		3.181,984	165	3.184,357		3.215,579	
			3.171,460		330	3.169,566	22	3.194,704	166	3.192,089	291	3.196,065	
			3.181,584			3.170,499	23	3.220,899		3.215,577	292	3.200,026	
			3.190,334			3.177,918	24	3.171,768	167	3.178,328	293	3.168,425	
			3.196,919			3.179,149	25	3.174,885		3.220,904		3.205,113	
			3.221,792			3.194,294	39	3.181,985	169	3.200,022	294	3.188,258	
			3.221,793			3.208,501	48	3.218,207	172	3.200,023		3.202,562	
			3.192,980			3.219,091	49	3.178,326		3.207,641		3.223,569	
			3.174,523			3.220,456	55	3.219,501		3.210,228	295	3.166,458	
			3.176,747			3.223,134	55	3.219,504	173	3.216,876	296	3.189,506	
			3.179,143			3.225,810	55	3.179,544	175	3.203,845	298	3.186,887	
			3.199,566		340	3.196,922	56	3.196,060		3.224,918		3.198,682	
			3.219,086			3.219,092		3.202,558	176	3.208,893		3.223,570	
			3.164,191			3.225,811	58	Re:25,539	177	3.222,237	299	3.181,987	
			3.186,465		341	3.191,654		3.185,602		3.205,107		3.224,919	
			3.177,915		347	3.186,468	60	3.222,234	180	3.222,237	303.1	3.185,606	
			3.204,679		353	3.164,192		3.210,228		3.197,351	304	3.219,508	
			3.213,914		354	3.165,138	62	3.190,778	184	3.200,024	306	3.168,426	
			3.220,454			3.172,445	2	3.220,900		3.201,297		3.226,275	
			3.177,916			3.192,984	63	3.214,311	185	3.169,894	307	3.168,427	
			3.179,144			3.195,602		3.196,061		3.193,426		3.208,894	
			3.180,386			3.205,931	64	3.197,350	189	3.188,255	308	3.192,092	
			3.180,387			3.207,200	66	Re:25,935		3.189,501	309	3.183,137	
			3.187,796			3.216,476		3.190,779		3.205,108	310	3.180,777	
			3.196,231		355	3.171,462		3.202,559	191	3.207,642	311	3.180,778	
			3.215,183		356	3.164,193	67	3.226,272	195	3.226,273	315	3.179,547	
			3.165,136		359	3.195,603	69	3.214,306	196	3.198,681		3.224,920	
			3.181,585			3.217,778		3.170,826	197	3.164,507	319	3.177,107	
			3.189,076		361	3.166,113		3.212,312		3.166,456	321	3.218,215	
			3.192,981			3.175,598		3.216,874		3.205,109	325	3.186,888	
			3.192,982			3.195,604	71	3.218,948		3.220,906	327	3.165,434	
			3.198,232			3.225,812		3.211,597	200	3.185,603	329	3.193,429	
			3.217,772		362	3.203,461		3.212,946	202	3.183,136	330	3.211,602	
			3.217,773		367	3.198,234	72	3.174,886	209	3.200,025		3.222,238	
			3.219,085		370	3.169,567		3.192,085		3.206,346	332	3	

Class 156 - Con.		4.5 : 3,223.135	'99 : 3,179.154	5 : 3,199.574	193 : 3,219.101	58 : 3,183.142	165 : 3,194.725
513	: 3,205.117	5 : 3,195.608	3,212.557	3,199.575	202 : 3,204.691	59 : 3,193.436	3,220.912
	3,226.281	7 : 3,180.394	3,215.188	3,204.687	206 : 3,170.506	3,206.351	3,212.957
514	: 3,164.510		3,219.096	3,211.209		3,181.596	3,212.959
515	: 3,214.317		3,225.815	3,219.099		3,187.800	3,171.777
	3,216.880		3,181.591	3,225.817		3,215.191	3,188.264
517	: 3,206.349		3,198.238	3,194.297		3,220.468	3,179.550
518	: 3,198.684		3,199.570	3,166.464		3,221.803	3,201.300
	3,210.231		3,208.504	3,221.804		3,221.804	3,215.583
519	: 3,226.282		3,208.504	3,198.241		3,192.992	3,184.367
520	: 3,168.430		3,212.558	3,209.812		3,196.933	3,215.584
522	: 3,226.283		3,174.531	3,223.144		3,176.757	3,224.923
523	: 3,186.892		3,182.711	3,215.189		3,224.949	3,166.465
525	: 3,193.433		3,187.799	3,219.080		3,216.148	3,169.898
	3,206.350		3,213.918	3,181.593		3,216.484	3,178.335
530	: 3,185.609		3,221.779	3,168.431		3,168.135	3,210.233
	3,196.067		3,221.779	3,176.755		3,196.934	3,214.319
	3,218.218		3,223.136	3,176.756		3,221.805	3,224.924
532	: 3,219.511		3,171.466	3,176.756		3,186.474	3,168.432
536	: 3,208.899		3,172.457	3,203.466		3,211.211	3,169.899
537	: 3,196.068		3,180.397	3,215.190		3,202.206	3,226.285
540	: 3,200.029		3,181.588	3,221.801		3,180.401	3,180.782
	3,211.603		3,192.987	3,165.435		3,196.935	3,197.355
545	: 3,220.912		3,204.682	3,171.770		3,179.160	3,202.565
547	: 3,196.069		3,220.459	3,179.159		3,211.212	3,203.847
548	: 3,184.365		3,199.571	3,195.613		3,179.161	3,223.575
549	: 3,185.610		3,200.874	3,203.465		3,195.618	3,186.894
552	: 3,223.574		3,204.683	3,204.688		3,203.468	3,223.576
554	: 3,215.582		3,199.097	3,205.934		3,192.993	3,219.513
566	: 3,181.989		3,168.133	3,207.205		3,186.475	3,203.848
569	: 3,202.564		3,171.468	3,216.481		3,177.927	3,212.955
571	: 3,196.070		3,173.471	3,223.145		3,213.925	3,193.437
575	: 3,183.139		3,191.658	3,196.930		3,192.994	3,193.438
	3,188.262		3,195.610	3,195.614		3,192.995	3,214.320
	3,222.241		3,196.923			3,192.996	3,205.119
	3,221.604		3,198.236			3,198.243	3,218.222
583	: 3,174.892		3,208.503			3,181.597	3,180.783
	3,192.986		3,209.809			3,191.665	3,193.439
	3,194.715		3,216.477			3,198.244	3,197.356
	3,198.685		3,220.460			3,203.469	3,206.352
584	: 3,190.785		3,221.798			3,182.714	3,207.652
	3,222.242		3,221.799			3,191.663	3,185.612
	3,218.219		3,223.137			3,203.467	3,203.849
587	: 3,189.507		3,223.138			3,207.206	3,198.688
596	: 3,189.507		3,223.138			3,211.210	3,172.800
			3,224.487			3,220.464	3,198.689
			3,199.572			3,225.818	3,207.654
			3,199.573			3,225.818	3,198.689
			3,202.203			3,224.496	3,202.566
			3,202.204			3,170.507	3,194.716
			3,202.204			3,174.536	3,216.882
			3,204.684			3,190.348	3,201.301
			3,211.208			3,223.146	3,171.772
			3,213.920			3,166.116	3,194.717
			3,216.478			3,194.299	3,194.718
			3,219.098			3,223.147	3,200.030
			3,169.573			3,219.100	3,222.43
			3,179.158			3,187.801	3,169.088
			3,223.142			402 : 3,213.926	3,223.578
			3,202.205			403 : 3,181.598	3,197.357
			3,175.601			404 : 3,217.786	3,197.358
			3,176.754				3,197.832
			3,186.472				3,181.990
			3,191.660				3,186.895
			3,194.296				3,210.234
			3,196.926				3,206.353
			3,212.555				3,219.514
			3,220.461				3,220.915
			3,164.202				3,219.514
			3,173.468				3,220.915
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
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			3,195.611				3,219.514
			3,196.926				3,219.514
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			3,220.461				3,219.514
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			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
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			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
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			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
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			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
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			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.921				3,219.514
			3,183.957				3,219.514
			3,182.709				3,219.514
			3,186.470				3,219.514
			3,189.078				3,219.514
			3,195.611				3,219.514
			3,196.926				3,219.514
			3,212.555				3,219.514
			3,220.461				3,219.514
			3,164.202				3,219.514
			3,173.468				3,219.514
			3,177.920				3,219.514
			3,177.92				

145	: 3,184,372	357	: 3,201,309	14	: 3,216,489	74	: 3,187,807	157	: 3,225,825	9	: 3,186,482	33	: 3,181,612
	3,193,446	358	: 3,198,694		3,193,000	75	: 3,165,150	158	: 3,173,480		3,191,675		3,189,091
	3,212,960		3,214,329	16	: 3,217,790		3,189,086		3,181,606		3,191,676		3,193,011
	3,216,888		3,214,330	17	: 3,173,476	76	: 3,174,539		3,182,720		3,195,629		3,198,253
	3,220,918		3,214,331		3,215,192		3,191,670		3,187,810		3,196,944		3,199,588
146	: 3,223,580	359	: 3,198,695	21	: 3,171,473	80	: 3,205,936		3,191,674		3,199,586		3,199,589
	3,173,830	360	: 3,198,696	22	: 3,167,116		3,207,212		3,195,624		3,199,587		3,199,590
	3,200,033	363	: 3,205,127		3,176,759		3,208,511		3,221,808		3,203,481		3,208,525
	3,224,926	369	: 3,171,776		3,181,604		3,212,569		3,223,154		3,205,943		3,209,826
152	: 3,184,373	371	: 3,185,618		3,187,806		3,215,194	160	: 3,173,481		3,207,217		3,212,577
	3,215,590	372	: 3,198,697		3,191,667		3,217,793		3,183,969		3,208,515		3,221,814
154	: 3,173,831	374	: 3,194,729		3,191,668	81	: 3,165,151		3,180,408		3,208,517		3,223,161
155	: 3,224,927	375	: 3,201,310		3,198,245		3,169,576	162	: 3,176,762		3,208,518		3,223,162
157	: 3,193,447	384	: 3,188,269		3,202,208		3,176,761		3,212,570		3,209,824		3,223,163
	3,222,444	392	: 3,166,468	25	: 3,191,669		3,207,213	163	: 3,212,571		3,212,575	35	: 3,175,613
	3,223,581		3,185,619	26	: 3,166,120		3,207,214		3,215,193		3,215,197		3,183,972
158	: 3,180,786	395	: 3,188,270		3,170,508		3,224,501	164	: 3,194,308		3,215,198		3,193,012
	3,212,961	401	: 3,205,128		3,213,928	82	: 3,224,502	166	: 3,165,152		3,220,473		3,195,633
	3,214,325				3,225,820	83	: 3,187,807		3,176,763		3,220,474		3,223,164
159	: 3,202,570			27	: 3,186,480		3,187,808		3,179,165	10	: 3,167,120	36	: 3,174,545
161	: 3,193,448				3,193,001	84	: 3,191,671		3,195,625		3,193,007		3,191,678
	3,196,071	1	: Re.25,927	28	: 3,183,964	85	: 3,171,476		3,196,942		3,221,810		3,164,206
163	: 3,180,787		3,164,204		3,211,214	86	: 3,185,212		3,198,248	11	: 3,165,154	38	: 3,172,472
164	: 3,186,900		3,167,113	29	: 3,165,148		3,219,104		3,211,219		3,167,121		3,173,483
	3,210,238		3,169,575		3,176,760	88	: 3,177,932		3,212,572		3,170,515		3,179,169
	3,219,517		3,172,462		3,183,965		3,196,938		3,216,494		3,171,479		3,180,417
166	: 3,210,239		3,181,599		3,194,303		3,200,880	168	: 3,176,764		3,174,544		3,181,613
168	: 3,194,727		3,181,600	30	: 3,165,149		3,208,512		3,176,764		3,179,167		3,205,947
	3,201,304		3,183,960		3,166,121		3,221,807		3,187,811		3,179,167		3,208,526
	3,203,851		3,186,476		3,174,537	89	: 3,217,794		3,177,935	169	: 3,177,935		3,215,199
	3,207,656		3,194,300		3,180,403	90	: 3,181,605		3,181,607	170	: 3,181,607		3,216,498
	3,212,962		3,195,619		3,185,209		3,187,809		3,194,309		3,180,413		3,216,499
	3,222,445		3,203,470		3,224,499		3,208,513		3,224,503	171	: 3,224,503		3,216,499
175	: 3,197,360		3,207,209		3,225,821		3,209,817	172	: 3,220,472		3,193,008		3,223,165
	3,210,240		3,217,787	32	: 3,183,966		3,217,795	174	: 3,173,482		3,193,009	39	: 3,164,207
	3,219,518	2	: 3,165,145		3,202,209	94	: 3,198,247		3,196,943		3,194,311		3,171,482
	3,219,519		3,165,146	33	: 3,223,149	95	: 3,211,217		3,209,820		3,196,945		3,173,484
178	: 3,205,125		3,165,147	34	: 3,194,304		3,215,195	176	: 3,223,155		3,204,694		3,177,940
179	: 3,194,728		3,167,114		3,223,150	96	: 3,177,933	179	: 3,177,936		3,205,944		3,191,679
180	: 3,186,901		3,171,471	35	: 3,166,121		3,205,937		3,195,626		3,208,519		3,195,632
	3,193,449		3,172,463		3,198,246	97	: 3,172,465		3,202,211		3,208,520		3,208,527
181	: 3,190,789		3,179,162		3,203,473	101	: 3,195,622		3,202,212		3,209,825		3,211,220
192	: 3,193,450		3,183,961		3,213,929		3,217,796		3,215,196		3,219,108	40	: Re.25,918
193	: 3,196,072		3,186,477	36	: 3,172,464		3,170,510		3,217,799		3,221,811	41	: 3,172,473
208	: 3,201,305		3,187,802		3,199,577	104	: 3,200,881		3,183,970	181	: 3,183,970		3,179,170
205	: 3,214,326		3,195,620	38	: 3,213,930		3,213,933		3,189,087		3,221,813	42	: 3,164,208
	3,214,327		3,206,508	39	: 3,177,929	105	: 3,174,540		3,195,627		3,223,158		3,167,123
	3,214,328		3,217,788		3,203,474	106	: 3,171,477	182	: 3,190,353		3,225,827		3,167,124
208	: 3,207,657		3,219,102		3,223,151		3,203,478	184	: 3,177,937	12	: 3,219,109		3,169,577
212	: 3,164,513		3,224,497	40	: 3,203,475		3,213,934	185	: 3,187,812		3,219,110		3,170,517
213	: 3,190,790		3,225,819		3,220,470		3,219,105		3,193,003	14	: 3,167,122		3,174,546
214	: 3,224,928	3	: 3,183,962	41	: 3,174,538	107	: 3,196,939		3,195,628		3,179,168		3,175,614
216	: 3,171,775	4	: 3,181,601		3,175,606	108	: 3,170,511		3,209,821		3,191,677		3,175,615
	3,180,788		3,181,602	42	: 3,170,509		3,172,466		3,212,573	19	: 3,216,497		3,175,616
218	: 3,216,889		3,191,666		3,203,476		3,196,940		3,216,496	21	: 3,183,971		3,179,171
219	: 3,190,791		3,200,877		3,219,103		3,205,938		3,224,504		3,190,354		3,179,172
223	: 3,166,467		3,203,471	43	: 3,171,474	109	: 3,196,941		3,195,627		3,193,010		3,179,173
227	: 3,167,469	5	: 3,176,758	44	: 3,199,578	110	: 3,168,137		3,215,153		3,194,312		3,185,216
228	: 3,216,890		3,192,997	45	: 3,212,565		3,170,512		3,204,692	6	: 3,225,826		3,196,946
229	: 3,165,437		3,216,485	46	: 3,211,215	111	: 3,182,719	1	: 3,199,585		3,223,159		3,186,483
	3,185,615		3,224,498		3,211,216		3,204,693	2	: 3,167,117		3,223,159		3,189,092
237	: 3,180,789	6	: 3,164,205		3,216,492	117	: 3,180,405		3,172,467	22	: 3,190,355		3,194,314
	3,188,267		3,187,803	47	: 3,180,404		3,213,935		3,208,514	23	: 3,170,516		3,195,633
246	: 3,201,307	7	: 3,167,115		3,182,717	119	: 3,168,138		3,209,822		3,205,945		3,195,634
	3,215,591		3,177,928		3,194,305		3,191,672		3,221,809	25	: 3,212,576		3,195,635
252	: 3,215,592		3,186,478		3,196,936	120	: 3,216,493	3	: 3,212,574		3,172,468		3,199,592
255	: 3,218,227		3,187,804		3,207,210	121	: 3,173,478	4	: 3,165,153		3,182,722		3,200,882
257	: 3,184,374		3,189,083		3,207,211		3,220,471		3,175,608		3,175,608		3,189,088
259	: 3,165,438		3,190,349		3,212,564	122	: 3,173,479		3,177,938		3,189,089		3,208,528
260	: 3,188,268		3,194,301	48	: 3,199,579		3,174,541		3,180,409		3,205,946		3,202,215
264	: 3,190,792		3,217,789		3,203,477		3,213,936		3,181,608		3,208,521		3,217,801
271	: 3,185,616	8	: 3,216,488		3,225,822		3,225,824		3,186,481		3,217,800		3,219,113
272	: 3,198,693	9	: 3,166,118	51	: 3,208,510	123	: 3,183,960		3,193,004	26	: 3,213,904		3,219,114
273	: 3,186,902		3,166,119	53	: 3,224,500		3,194,307		3,193,005	27	: 3,223,160		3,220,475
274	: 3,185,617		3,175,605	55	: 3,175,607		3,211,218		3,194,310	28	: 3,171,481		3,220,476
	3,218,228		3,180,402	56	: 3,194,306	124	: 3,185,213		3,198,249		3,172,469		3,224,506
275	: 3,219,520		3,181,603	58	: 3,212,565	129	: 3,195,623		3,198,250	29	: 3,168,139	43	: 3,180,418
	3,216,891		3,182,715	60	: 3,182,718	132	: 3,213,937		3,203,480		3,172,470	44	: 3,190,357
278	: 3,190,793		3,185,208	61	: 3,213,932	134	: 3,185,210		3,205,941		3,215,611		3,215,200
284	: 3,197,361		3,187,805		3,216,491		3,190,352		3,205,942		3,180,414		3,217,802
301	: 3,215,593		3,189,084	62	: 3,177,930		3,203,479		3,208,516		3,208,522	45	: 3,167,125
303	: 3,215,594		3,190,351	63	: 3,209,815		3,207,215		3,209,823		3,208,523		3,172,474
306	: 3,207,658		3,192,998	64	: 3,199,580		3,217,797	5	: 3,224,505		3,219,111		3,196,947
317	: 3,205,126		3,221,806		3,200,878		3,219,106		3,168,920	30	: 3,195,630		3,219,115
337	: 3,165,439		3,212,566	65	: 3,177,931	135	: 3,199,585	6	: 3,223,156		3,202,214	46	: 3,166,123
342	: 3,224,929		3,216,487	66	: 3,212,567		3,209,818	7	: 3,193,006		3,212,570		3,168,140
343	: 3,184,375		3,219,163	67	: 3,171,473	139	: 3,166,122		3,223,157		3,190,356		3,171,483
	3,216,892		3,199,581		3,177,934		3,193,002	8	: 3,213,939		3,219,112		3,179,174
	3,220,919		3,213,931										

Class 166—Con.		85 : 3,207,221	241 : 3,196,951	32 : 3,184,379	53.1 : 3,211,611	65 : 3,184,383	80 : 3,226,296
48 : 3,170,518	89 : 3,186,488	242 : 3,196,952	32 : 3,197,364	53.1 : 3,211,612	65 : 3,188,272	80 : 3,226,296	81 : 3,168,440
49 : 3,198,254	90 : 3,223,168	243 : 3,196,953	33 : 3,197,365	53.1 : 3,211,613	65 : 3,188,273	81 : 3,168,440	81 : 3,168,440
49 : 3,179,177	91 : 3,198,256	244 : 3,196,954	33 : 3,197,366	53.1 : 3,211,614	65 : 3,188,274	81 : 3,168,440	81 : 3,168,440
50 : 3,179,178	92 : 3,212,582	245 : 3,196,955	33 : 3,197,367	53.1 : 3,211,615	65 : 3,188,275	81 : 3,168,440	81 : 3,168,440
51 : 3,182,723	93 : 3,196,949	246 : 3,196,956	33 : 3,197,368	53.1 : 3,211,616	65 : 3,188,276	81 : 3,168,440	81 : 3,168,440
52 : 3,186,484	94 : 3,174,485	247 : 3,196,957	33 : 3,197,369	53.1 : 3,211,617	65 : 3,188,277	81 : 3,168,440	81 : 3,168,440
53 : 3,191,681	95 : 3,196,949	248 : 3,196,958	33 : 3,197,370	53.1 : 3,211,618	65 : 3,188,278	81 : 3,168,440	81 : 3,168,440
54 : 3,212,578	96 : 3,174,486	249 : 3,196,959	33 : 3,197,371	53.1 : 3,211,619	65 : 3,188,279	81 : 3,168,440	81 : 3,168,440
55 : 3,182,723	97 : 3,196,949	250 : 3,196,960	33 : 3,197,372	53.1 : 3,211,620	65 : 3,188,280	81 : 3,168,440	81 : 3,168,440
56 : 3,186,484	98 : 3,174,487	251 : 3,196,961	33 : 3,197,373	53.1 : 3,211,621	65 : 3,188,281	81 : 3,168,440	81 : 3,168,440
57 : 3,191,681	99 : 3,196,949	252 : 3,196,962	33 : 3,197,374	53.1 : 3,211,622	65 : 3,188,282	81 : 3,168,440	81 : 3,168,440
58 : 3,212,579	100 : 3,174,488	253 : 3,196,963	33 : 3,197,375	53.1 : 3,211,623	65 : 3,188,283	81 : 3,168,440	81 : 3,168,440
59 : 3,202,219	101 : 3,196,949	254 : 3,196,964	33 : 3,197,376	53.1 : 3,211,624	65 : 3,188,284	81 : 3,168,440	81 : 3,168,440
60 : 3,193,013	102 : 3,174,489	255 : 3,196,965	33 : 3,197,377	53.1 : 3,211,625	65 : 3,188,285	81 : 3,168,440	81 : 3,168,440
61 : 3,199,593	103 : 3,196,949	256 : 3,196,966	33 : 3,197,378	53.1 : 3,211,626	65 : 3,188,286	81 : 3,168,440	81 : 3,168,440
62 : 3,225,828	104 : 3,174,490	257 : 3,196,967	33 : 3,197,379	53.1 : 3,211,627	65 : 3,188,287	81 : 3,168,440	81 : 3,168,440
63 : 3,168,141	105 : 3,196,949	258 : 3,196,968	33 : 3,197,380	53.1 : 3,211,628	65 : 3,188,288	81 : 3,168,440	81 : 3,168,440
64 : 3,166,578	106 : 3,174,491	259 : 3,196,969	33 : 3,197,381	53.1 : 3,211,629	65 : 3,188,289	81 : 3,168,440	81 : 3,168,440
65 : 3,174,547	107 : 3,196,949	260 : 3,196,970	33 : 3,197,382	53.1 : 3,211,630	65 : 3,188,290	81 : 3,168,440	81 : 3,168,440
66 : 3,175,617	108 : 3,174,492	261 : 3,196,971	33 : 3,197,383	53.1 : 3,211,631	65 : 3,188,291	81 : 3,168,440	81 : 3,168,440
67 : 3,176,770	109 : 3,196,949	262 : 3,196,972	33 : 3,197,384	53.1 : 3,211,632	65 : 3,188,292	81 : 3,168,440	81 : 3,168,440
68 : 3,182,724	110 : 3,174,493	263 : 3,196,973	33 : 3,197,385	53.1 : 3,211,633	65 : 3,188,293	81 : 3,168,440	81 : 3,168,440
69 : 3,187,813	111 : 3,196,949	264 : 3,196,974	33 : 3,197,386	53.1 : 3,211,634	65 : 3,188,294	81 : 3,168,440	81 : 3,168,440
70 : 3,189,094	112 : 3,174,494	265 : 3,196,975	33 : 3,197,387	53.1 : 3,211,635	65 : 3,188,295	81 : 3,168,440	81 : 3,168,440
71 : 3,209,828	113 : 3,196,949	266 : 3,196,976	33 : 3,197,388	53.1 : 3,211,636	65 : 3,188,296	81 : 3,168,440	81 : 3,168,440
72 : 3,212,580	114 : 3,174,495	267 : 3,196,977	33 : 3,197,389	53.1 : 3,211,637	65 : 3,188,297	81 : 3,168,440	81 : 3,168,440
73 : 3,221,816	115 : 3,196,949	268 : 3,196,978	33 : 3,197,390	53.1 : 3,211,638	65 : 3,188,298	81 : 3,168,440	81 : 3,168,440
74 : 3,174,548	116 : 3,174,496	269 : 3,196,979	33 : 3,197,391	53.1 : 3,211,639	65 : 3,188,299	81 : 3,168,440	81 : 3,168,440
75 : 3,204,695	117 : 3,196,949	270 : 3,196,980	33 : 3,197,392	53.1 : 3,211,640	65 : 3,188,300	81 : 3,168,440	81 : 3,168,440
76 : 3,195,636	118 : 3,174,497	271 : 3,196,981	33 : 3,197,393	53.1 : 3,211,641	65 : 3,188,301	81 : 3,168,440	81 : 3,168,440
77 : 3,220,478	119 : 3,196,949	272 : 3,196,982	33 : 3,197,394	53.1 : 3,211,642	65 : 3,188,302	81 : 3,168,440	81 : 3,168,440
78 : 3,224,507	120 : 3,174,498	273 : 3,196,983	33 : 3,197,395	53.1 : 3,211,643	65 : 3,188,303	81 : 3,168,440	81 : 3,168,440
79 : 3,193,014	121 : 3,196,949	274 : 3,196,984	33 : 3,197,396	53.1 : 3,211,644	65 : 3,188,304	81 : 3,168,440	81 : 3,168,440
80 : 3,194,315	122 : 3,174,499	275 : 3,196,985	33 : 3,197,397	53.1 : 3,211,645	65 : 3,188,305	81 : 3,168,440	81 : 3,168,440
81 : 3,207,219	123 : 3,196,949	276 : 3,196,986	33 : 3,197,398	53.1 : 3,211,646	65 : 3,188,306	81 : 3,168,440	81 : 3,168,440
82 : 3,195,637	124 : 3,174,500	277 : 3,196,987	33 : 3,197,399	53.1 : 3,211,647	65 : 3,188,307	81 : 3,168,440	81 : 3,168,440
83 : 3,204,696	125 : 3,196,949	278 : 3,196,988	33 : 3,197,400	53.1 : 3,211,648	65 : 3,188,308	81 : 3,168,440	81 : 3,168,440
84 : 3,225,829	126 : 3,174,501	279 : 3,196,989	33 : 3,197,401	53.1 : 3,211,649	65 : 3,188,309	81 : 3,168,440	81 : 3,168,440
85 : 3,170,519	127 : 3,196,949	280 : 3,196,990	33 : 3,197,402	53.1 : 3,211,650	65 : 3,188,310	81 : 3,168,440	81 : 3,168,440
86 : 3,187,814	128 : 3,174,502	281 : 3,196,991	33 : 3,197,403	53.1 : 3,211,651	65 : 3,188,311	81 : 3,168,440	81 : 3,168,440
87 : 3,207,220	129 : 3,196,949	282 : 3,196,992	33 : 3,197,404	53.1 : 3,211,652	65 : 3,188,312	81 : 3,168,440	81 : 3,168,440
88 : 3,208,530	130 : 3,174,503	283 : 3,196,993	33 : 3,197,405	53.1 : 3,211,653	65 : 3,188,313	81 : 3,168,440	81 : 3,168,440
89 : 3,213,942	131 : 3,196,949	284 : 3,196,994	33 : 3,197,406	53.1 : 3,211,654	65 : 3,188,314	81 : 3,168,440	81 : 3,168,440
90 : 3,220,479	132 : 3,174,504	285 : 3,196,995	33 : 3,197,407	53.1 : 3,211,655	65 : 3,188,315	81 : 3,168,440	81 : 3,168,440
91 : 3,175,618	133 : 3,196,949	286 : 3,196,996	33 : 3,197,408	53.1 : 3,211,656	65 : 3,188,316	81 : 3,168,440	81 : 3,168,440
92 : 3,186,485	134 : 3,174,505	287 : 3,196,997	33 : 3,197,409	53.1 : 3,211,657	65 : 3,188,317	81 : 3,168,440	81 : 3,168,440
93 : 3,187,815	135 : 3,196,949	288 : 3,196,998	33 : 3,197,410	53.1 : 3,211,658	65 : 3,188,318	81 : 3,168,440	81 : 3,168,440
94 : 3,199,594	136 : 3,174,506	289 : 3,196,999	33 : 3,197,411	53.1 : 3,211,659	65 : 3,188,319	81 : 3,168,440	81 : 3,168,440
95 : 3,211,222	137 : 3,196,949	290 : 3,196,100	33 : 3,197,412	53.1 : 3,211,660	65 : 3,188,320	81 : 3,168,440	81 : 3,168,440
96 : 3,177,804	138 : 3,174,507	291 : 3,196,101	33 : 3,197,413	53.1 : 3,211,661	65 : 3,188,321	81 : 3,168,440	81 : 3,168,440
97 : 3,220,480	139 : 3,196,949	292 : 3,196,102	33 : 3,197,414	53.1 : 3,211,662	65 : 3,188,322	81 : 3,168,440	81 : 3,168,440
98 : 3,177,941	140 : 3,174,508	293 : 3,196,103	33 : 3,197,415	53.1 : 3,211,663	65 : 3,188,323	81 : 3,168,440	81 : 3,168,440
99 : 3,177,942	141 : 3,196,949	294 : 3,196,104	33 : 3,197,416	53.1 : 3,211,664	65 : 3,188,324	81 : 3,168,440	81 : 3,168,440
100 : 3,177,943	142 : 3,174,509	295 : 3,196,105	33 : 3,197,417	53.1 : 3,211,665	65 : 3,188,325	81 : 3,168,440	81 : 3,168,440
101 : 3,177,944	143 : 3,196,949	296 : 3,196,106	33 : 3,197,418	53.1 : 3,211,666	65 : 3,188,326	81 : 3,168,440	81 : 3,168,440
102 : 3,177,945	144 : 3,174,510	297 : 3,196,107	33 : 3,197,419	53.1 : 3,211,667	65 : 3,188,327	81 : 3,168,440	81 : 3,168,440
103 : 3,177,946	145 : 3,196,949	298 : 3,196,108	33 : 3,197,420	53.1 : 3,211,668	65 : 3,188,328	81 : 3,168,440	81 : 3,168,440
104 : 3,177,947	146 : 3,174,511	299 : 3,196,109	33 : 3,197,421	53.1 : 3,211,669	65 : 3,188,329	81 : 3,168,440	81 : 3,168,440
105 : 3,177,948	147 : 3,196,949	300 : 3,196,110	33 : 3,197,422	53.1 : 3,211,670	65 : 3,188,330	81 : 3,168,440	81 : 3,168,440
106 : 3,177,949	148 : 3,174,512	301 : 3,196,111	33 : 3,197,423	53.1 : 3,211,671	65 : 3,188,331	81 : 3,168,440	81 : 3,168,440
107 : 3,177,950	149 : 3,196,949	302 : 3,196,112	33 : 3,197,424	53.1 : 3,211,672	65 : 3,188,332	81 : 3,168,440	81 : 3,168,440
108 : 3,177,951	150 : 3,174,513	303 : 3,196,113	33 : 3,197,425	53.1 : 3,211,673	65 : 3,188,333	81 : 3,168,440	81 : 3,168,440
109 : 3,177,952	151 : 3,196,949	304 : 3,196,114	33 : 3,197,426	53.1 : 3,211,674	65 : 3,188,334	81 : 3,168,440	81 : 3,168,440
110 : 3,177,953	152 : 3,174,514	305 : 3,196,115	33 : 3,197,427	53.1 : 3,211,675	65 : 3,188,335	81 : 3,168,440	81 : 3,168,440
111 : 3,177,954	153 : 3,196,949	306 : 3,196,116	33 : 3,197,428	53.1 : 3,211,676	65 : 3,188,336	81 : 3,168,440	81 : 3,168,440
112 : 3,177,955	154 : 3,174,515	307 : 3,196,117	33 : 3,197,429	53.1 : 3,211,677	65 : 3,188,337	81 : 3,168,440	81 : 3,168,440
113 : 3,177,956	155 : 3,196,949	308 : 3,196,118	33 : 3,197,430	53.1 : 3,211,678	65 : 3,188,338	81 : 3,168,440	81 : 3,168,440
114 : 3,177,957	156 : 3,174,516	309 : 3,196,119	33 : 3,197,431	53.1 : 3,211,679	65 : 3,188,339	81 : 3,168,440	81 : 3,168,440
115 : 3,177,958	157 : 3,196,949	310 : 3,196,120	33 : 3,197,432	53.1 : 3,211,680	65 : 3,188,340	81 : 3,168,440	81 : 3,168,440
116 : 3,177,959	158 : 3,174,517	311 : 3,196,121	33 : 3,197,433	53.1 : 3,211,681	65 : 3,188,341	81 : 3,168,440	81 : 3,168,440
117 : 3,177,960	159 : 3,196,949	312 : 3,196,122	33 : 3,197,434	53.1 : 3,211,682	65 : 3,188,342	81 : 3,168,440	81 : 3,168,440
118 : 3,177,961	160 : 3,174,518	313 : 3,196,123	33 : 3,197,435	53.1 : 3,211,683	65 : 3,188,343	81 : 3,168,440	81 : 3,168,440
119 : 3,177,962	161 : 3,196,949	314 : 3,196,124	33 : 3,197,436	53.1 : 3,211,684	65 : 3,188,344	81 : 3,168,440	81 : 3,168,440
120 : 3,177,963	162 : 3,174,519	315 : 3,196,125	33 : 3,197,437	53.1 : 3,211,685	65 : 3,188,345	81 : 3,168,440	81 : 3,168,440
121 : 3,177,964	163 : 3,196,949	316 : 3,196,126	33 : 3,197,438	53.1 : 3,211,686	65 : 3,188,346	81 : 3,168,440	81 : 3,168,440
122 : 3,177,965	164 : 3,174,520	317 : 3,196,127	33 : 3,197,439	53.1 : 3,211,687	65 : 3,188,347	81 : 3,168,440	81 : 3,168,440
123 : 3,177,966	165 : 3,196,949	318 : 3,196,128	33 : 3,197,440	53.1 : 3,211,688	65 : 3,188,348	81 : 3,168,440	81 : 3,168,440
124 : 3,177,967	166 : 3,174,521	319 : 3,196,129	33 : 3,197,441	53.1 : 3,211,689	65 : 3,188,349	81 : 3,168,440	81 : 3,168,440
125 : 3,177,968	167 : 3,196,949	320 : 3,196,130	33 : 3,197,442	53.1 : 3,211,690	65 : 3,1		

		235 : 3,166,132	18 : 3,194,740	40 : 3,216,908	77 : 3,175,956	137 : 3,167,142	54 : 3,180,928	71 : 3,194,884	69.5 : 3,192,319	2 : 3,183,306	15.55: 3,190,963	27 : 3,176,081	100.2 : 3,165,593	107 : 3,221,111
		3,203,491	3,197,376	3,219,539	3,194,746	3,190,383	3,184,539	3,198,882	3,200,198	3,205,308	3,164,679	3,177,293	3,165,594	3,206,558
		3,205,955	3,205,138	3,174,906	3,164,529	3,196,966	3,188,383	3,206,547	3,206,549	3,210,472	3,168,622	3,178,517	3,165,595	3,213,208
4 : 3,220,490	236 : 3,225,845	3,205,139	3,210,253	3,200,046	3,172,821	3,187,826	3,193,618	3,210,465	3,207,846	3,218,391	3,187,104	3,179,750	3,167,618	3,215,787
3,220,491	238 : 3,216,514	3,210,253	3,211,621	3,211,628	3,212,988	3,217,818	3,196,205	3,217,100	3,210,470	3,219,758	3,187,105	3,180,941	3,170,044	3,222,462
3,220,492	239 : 3,180,438	3,211,621	3,212,984	3,212,988	3,182,003	3,187,827	3,198,879	3,223,778	3,217,102	3,196,213	3,210,473	3,180,942	3,170,045	3,190,972
5 : 3,169,586	242 : 3,177,956	3,178,354	3,212,984	3,212,984	3,205,148	3,223,189	3,200,193	3,180,934	3,210,037	70 : 3,166,641	17 : 3,188,395	3,184,553	3,171,903	3,185,778
3,186,499	243 : 3,185,227	3,178,355	3,218,236	3,218,236	3,212,990	3,187,828	3,201,510	3,192,315	3,172,952	5 : 3,166,641	3,201,518	3,185,774	3,172,961	3,185,779
3,189,105	257 : 3,169,591	3,197,377	3,219,540	3,212,991	3,196,967	3,204,024	3,206,546	3,196,208	3,179,747	18 : Re.25.911	3,188,397	3,188,397	3,172,962	3,180,945
3,191,695	3,169,592	3,200,041	3,194,746	3,169,099	3,193,030	3,206,546	3,198,883	3,188,392	3,188,392	3,170,041	3,188,392	3,188,392	3,173,997	3,177,116
3,199,613	3,190,377	3,205,140	3,197,379	3,180,804	3,174,566	3,207,849	3,202,759	3,185,766	3,170,992	3,170,992	3,170,992	3,170,992	3,175,049	3,164,686
3,204,708	3,190,378	3,205,141	3,202,586	3,222,556	3,193,031	3,209,071	3,221,099	3,188,387	3,206,551	3,171,899	3,171,899	3,171,899	3,176,083	3,171,904
6 : 3,204,709	258 : 3,174,563	3,207,667	3,194,746	3,189,255	3,179,191	3,209,072	3,213,190	3,165,581	3,207,849	71 : 3,170,038	3,207,849	3,171,899	3,176,084	3,177,301
3,177,954	261 : 3,164,215	3,207,668	3,211,624	3,197,383	3,205,958	3,213,190	3,213,191	3,170,038	3,207,850	88 : 3,172,953	3,207,850	3,171,899	3,177,297	3,193,627
3,191,696	267 : 3,171,502	3,219,536	3,207,673	3,207,673	3,181,634	3,213,191	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,196,958	3,196,960	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	6 : 3,168,620	3,209,075	3,171,899	3,177,297	3,198,980
10 : 3,181,628	269 : 3,171,503	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,182,734	3,208,540	3,196,961	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,205,953	270 : 3,170,526	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,207,238	284 : 3,199,616	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,211,242	286 : 3,180,439	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,212,592	296 : 3,215,211	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,179,187	297 : 3,209,843	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
17 : 3,172,487	3,217,817	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,168,923	3,221,826	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
18 : 3,175,627	299 : 3,200,895	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,176,784	3,208,541	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,198,266	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
19 : 3,193,027	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,199,614	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,221,824	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
21 : 3,177,955	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
26 : 3,194,325	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,224,513	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
27 : 3,220,494	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,223,183	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
38 : 3,169,587	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
40 : 3,181,629	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
41 : 3,223,184	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
44 : 3,223,184	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,207,239	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,207,240	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
45 : 3,220,495	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
50 : 3,182,735	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
51 : 3,169,588	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
53 : 3,170,524	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,202,228	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,208,537	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
55 : 3,195,659	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,224,514	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
56 : 3,189,106	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,194,326	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
57 : 3,180,436	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,183,984	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,205,954	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,211,243	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980
3,217,816	3,215,212	3,219,537	3,210,256	3,210,256	3,181,634	3,213,192	3,213,192	3,172,953	3,209,075	3,172,953	3,209,075	3,171,899	3,177,297	3,198,980

Class 180—Con.					Class 181				
7	3:170.529	14	3:225.850	76	3:169.597	5	3:207.256	47	3:191.715
	3:225.851		3:225.851		3:207.251	5	3:208.545		3:212.602
	3:225.852		3:225.852		3:207.251	5	3:208.545	48	3:167.152
	3:170.530	5	3:195.668		3:196.972	5	3:208.547		3:176.790
	3:172.494	5	3:207.248		3:199.625	5	3:208.548		3:196.976
	3:172.495	15	3:176.785		3:204.719	5	3:208.549		3:212.603
	3:173.509	19	3:166.140		3:217.826	5	3:208.550		3:219.142
	3:173.510		3:167.146		3:223.193	5	3:209.854	49	3:168.936
	3:174.569		3:168.156		3:216.521	5	3:209.855	50	3:194.341
	3:174.570		3:181.640		3:169.598	5	3:211.252		3:196.977
	3:174.571		3:187.829		3:172.496	5	3:212.598		3:204.723
	3:174.572		3:190.386		3:198.279	5	3:212.599		3:209.857
	3:174.573		3:196.971		3:166.143	5	3:212.600		3:219.143
	3:175.634		3:205.963		3:203.500	5	3:212.601	51	3:165.167
	3:177.959		3:212.595		3:170.535	5	3:215.223		3:174.581
	3:177.960		3:225.853		3:183.992	5	3:216.523		3:174.582
	3:180.443	20	3:187.830		3:185.245	5	3:216.524		3:185.252
	3:181.636	21	3:166.141		3:189.119	5	3:216.525		3:186.511
	3:181.637	22	3:166.142		3:202.238	5	3:217.828		3:187.835
	3:181.638		3:224.522		3:205.968	5	3:220.503		3:202.240
	3:181.639	24	3:183.991		3:207.254	5	3:220.504	52	3:176.791
	3:182.739	25	3:174.574		3:166.144	5	3:221.833		3:177.971
	3:182.740		3:193.039		3:166.146	5	3:223.194		3:180.449
	3:183.988		3:224.523		3:168.158	5	3:225.858		3:187.836
	3:185.238	26	3:212.596		3:168.931	5	3:225.859		3:208.552
	3:185.239		3:213.957		3:168.932	20	3:182.746	53	3:220.506
	3:185.240		3:219.137		3:169.599	23	3:168.159		3:189.124
	3:189.112		3:224.524		3:170.536		3:220.505		3:220.507
	3:189.113	27	3:165.162		3:168.160	24	3:168.160	54	3:166.151
	3:189.114		3:177.963		3:177.967		3:169.600		3:181.647
	3:189.115		3:217.823		3:185.246		3:179.204		3:198.284
	3:191.705	31	3:199.623		3:185.247		3:185.251		3:209.858
	3:191.706	33	3:194.335		3:186.508		3:193.047	55	3:174.583
	3:191.707		3:225.854		3:193.044		3:213.960		3:175.640
	3:193.037	41	3:198.277		3:211.250		3:215.224	56	3:177.972
	3:194.333	42	3:181.641		3:215.220		3:217.831		3:189.122
	3:195.665		3:186.507		3:215.221		3:223.195		3:195.679
	3:195.666		3:204.717		Re: 25.793		3:224.526		3:196.978
	3:195.667		3:209.851		3:164.219	27	3:174.578		3:209.859
	3:198.274		3:212.597		3:164.220		3:174.579		3:209.860
	3:200.898	43	3:225.855		3:166.145	29	3:176.788	57	3:209.860
	3:202.232	44	3:191.708		3:168.933	30	3:180.446	58	3:166.152
	3:203.498		3:221.832		3:172.497	31	3:164.221		3:177.973
	3:204.715	51	3:167.147		3:177.968		3:166.147	59	Re: 25.909
	3:205.959		3:189.117		3:183.993		3:168.934		3:168.162
	3:205.960		3:191.709		3:183.994		3:169.601		3:209.861
	3:207.245	53	3:185.241		3:185.248		3:170.537	61	3:200.902
	3:207.246	54	3:179.197		3:185.242		3:170.538		3:187.840
	3:208.543		3:185.243		3:195.671		3:179.203		3:191.718
	3:209.847		3:185.243		3:195.672		3:179.204		3:193.052
	3:209.848		3:198.278		3:195.673		3:180.447		3:194.342
	3:209.849		3:205.964		3:196.973		3:186.509		3:197.981
	3:211.246		3:207.249		3:198.280		3:187.832		3:199.630
	3:211.247	55	3:213.958		3:203.501		3:187.833		3:203.506
	3:212.594	57	3:179.138		3:207.252		3:188.374		3:207.265
	3:213.956	64	3:191.710		3:207.255		3:193.048		3:207.266
	3:215.218	65	3:168.157		3:209.853		3:194.339		3:207.267
	3:216.518		3:171.505		3:211.251		3:194.340		3:219.151
	3:216.519		3:179.198		3:215.222		3:203.502		3:223.200
	3:219.134		3:179.199		3:216.522		3:204.722		3:225.869
	3:219.135		3:190.387		3:217.827		3:207.257		3:225.870
	3:219.136		3:202.234		3:195.674	83	3:213.961		3:199.633
	3:220.501		3:205.965		3:195.675	88	3:217.829		3:199.634
	3:221.831		3:205.966		3:219.139		3:219.140		3:199.635
	3:221.832		3:211.249		3:165.164	89	3:225.860		3:203.508
	3:221.833		3:217.824		3:177.969		3:224.528		3:220.510
	3:221.834		3:194.334		3:191.712	32	3:166.148	3	3:165.168
	3:221.835		3:193.040		3:172.498		3:176.793		3:207.268
	3:221.836		3:195.669		3:224.525		3:190.389		3:193.054
	3:221.837		3:195.670		3:174.576	90	3:198.283		3:205.975
	3:221.838		3:193.041		3:194.338		3:199.626		3:211.254
	3:221.839		3:203.499		3:207.250		3:200.900		3:221.839
	3:221.840		3:207.251		3:165.163		3:221.834		3:223.196
	3:221.841		3:167.148		3:167.148		3:166.149		3:223.197
	3:221.842		3:177.961		3:179.200		3:167.151		3:223.198
	3:221.843		3:182.741		3:199.624		3:174.580		3:223.199
	3:221.844		3:189.116		3:217.825		3:176.789		3:223.200
	3:221.845		3:225.849		3:175.638		3:177.970		3:223.201
	3:221.846		3:168.929		3:175.639		3:180.448		3:223.202
	3:221.847		3:199.620		3:176.787		3:182.747		3:223.203
	3:221.848		3:225.856		3:180.445		3:183.996		3:223.204
	3:221.849		3:225.857		3:181.643		3:193.049		3:223.205
	3:221.850		3:196.149		3:181.644		3:195.678		3:223.206
	3:221.851		3:175.636		3:181.645		3:196.975		3:223.207
	3:221.852		3:176.786		3:182.743		3:205.972		3:223.208
	3:221.853		3:181.642		3:182.744		3:207.258		3:223.209
	3:221.854		3:189.119		3:182.745		3:211.253		3:223.210
	3:221.855		3:193.042		3:182.746		3:215.225		3:223.211
	3:221.856		3:199.625		3:182.747		3:217.830		3:223.212
	3:221.857		3:207.253		3:182.748		3:217.831		3:223.213
	3:221.858		3:207.254		3:182.749		3:217.832		3:223.214
	3:221.859		3:207.255		3:182.750		3:217.833		3:223.215
	3:221.860		3:207.256		3:182.751		3:217.834		3:223.216
	3:221.861		3:207.257		3:182.752		3:217.835		3:223.217
	3:221.862		3:207.258		3:182.753		3:217.836		3:223.218
	3:221.863		3:207.259		3:182.754		3:217.837		3:223.219
	3:221.864		3:207.260		3:182.755		3:217.838		3:223.220
	3:221.865		3:207.261		3:182.756		3:217.839		3:223.221
	3:221.866		3:207.262		3:182.757		3:217.840		3:223.222
	3:221.867		3:207.263		3:182.758		3:217.841		3:223.223
	3:221.868		3:207.264		3:182.759		3:217.842		3:223.224
	3:221.869		3:207.265		3:182.760		3:217.843		3:223.225
	3:221.870		3:207.266		3:182.761		3:217.844		3:223.226
	3:221.871		3:207.267		3:182.762		3:217.845		3:223.227
	3:221.872		3:207.268		3:182.763		3:217.846		3:223.228
	3:221.873		3:207.269		3:182.764		3:217.847		3:223.229
	3:221.874		3:207.270		3:182.765		3:217.848		3:223.230
	3:221.875		3:207.271		3:182.766		3:217.849		3:223.231
	3:221.876		3:207.272		3:182.767		3:217.850		3:223.232
	3:221.877		3:207.273		3:182.768		3:217.851		3:223.233
	3:221.878		3:207.274		3:182.769		3:217.852		3:223.234
	3:221.879		3:207.275		3:182.770		3:217.853		3:223.235
	3:221.880		3:207.276		3:182.771		3:217.854		3:223.236
	3:221.881		3:207.277		3:182.772		3:217.855		3:223.237
	3:221.882		3:207.278		3:182.773		3:217.856		3:223.238
	3:221.883		3:207.279		3:182.774		3:217.857		3:223.239
	3:221.884		3:207.280		3:182.775		3:217.858		3:223.240
	3:221.885		3:207.281		3:182.776		3:217.859		3:223.241
	3:221.886		3:207.282		3:182.777		3:217.860		3:223.242
	3:221.887		3:207.283		3:182.778		3:217.861		3:223.243
	3:221.888		3:207.284		3:182.779		3:217.862		3:223.244
	3:221.889		3:207.285		3:182.780		3:217.863		3:223.245
	3:221.890		3:207.286		3:182.781		3:217.864		3:223.246
	3:221.891		3:207.287		3:182.782		3:217.865		3:223.247
	3:221.892		3:207.288		3:182.783				

Class 192—Con.		113	2	28	1	9	32
69 : 3,205,988		113 : 3,171,527	2 : 3,212,614	28 : 3,214,344	1 : 3,198,306	9 : 3,184,029	32 : 3,179,231
71 : 3,176,812		113 : 3,175,667	2 : 3,215,240	28 : 3,222,257	5 : 3,215,244	16 : 3,170,557	
72 : 3,187,866		113 : 3,181,674	2 : 3,220,528	28 : 3,223,592	2 : 3,190,427	19 : 3,191,743	
76 : 3,225,877		113 : 3,198,305	3 : 3,221,858	29 : 3,226,302	3 : 3,204,744	19 : 3,164,238	
81 : 3,171,523		113 : 3,202,253	3 : 3,169,622	29 : 3,225,785	3 : 3,215,245	19 : 3,199,654	
		113 : 3,204,738	3 : 3,208,574	30 : 3,186,918	6 : 3,223,218	19 : 3,165,192	
		113 : 3,224,542	3 : 3,220,529	30 : 3,189,526	4 : 3,203,528	19 : 3,191,745	
		113 : 3,181,669	3 : 3,221,859	30 : 3,212,994	7 : 3,181,679	33 : 3,165,194	
		113 : 3,197,002	3 : 3,225,881	30 : 3,216,906	11 : 3,215,246		
		113 : 3,220,523	4 : 3,165,187	30 : 3,220,929	11 : 3,225,883		
		113 : 3,224,536	4 : 3,165,188	30 : 3,222,258	12 : 3,223,219		
		113 : 3,189,149	134 : 3,213,992	30 : 3,183,170	16 : 3,191,740		
		113 : 3,193,068	139 : 3,178,001	30 : 3,198,712	16 : 3,195,707		
		113 : 3,217,849	139 : 3,204,739	30 : 3,205,150	16 : 3,200,927		
		113 : 3,180,466	142 : 3,200,921	30 : 3,214,345	16 : 3,224,545		
		113 : 3,168,175	142 : 3,217,852	30 : 3,206,375	16 : 3,224,546		
		113 : 3,169,617	143 : 3,169,619	30 : 3,196,084	17 : 3,164,237		
		113 : 3,172,514	143 : 3,194,374	30 : 3,202,587	17 : 3,168,181		
		113 : 3,175,665	144 : 3,172,516	30 : 3,212,995	17 : 3,181,680		
		113 : 3,177,997	145 : 3,224,543	30 : 3,216,906	17 : 3,197,010		
		113 : 3,177,998	147 : 3,200,922	30 : 3,217,908	17 : 3,197,011		
		113 : 3,181,670	148 : 3,172,517	30 : 3,212,615	17 : 3,207,283		
		113 : 3,181,671	148 : 3,181,675	30 : 3,216,548	17 : 3,215,247		
		113 : 3,185,276	150 : 3,174,606	30 : 3,221,860	17 : 3,217,853		
		113 : 3,189,150	150 : 3,195,704	30 : 3,225,882	17 : 3,225,884		
		113 : 3,190,419	150 : 3,205,992	30 : 3,167,165	18 : 3,178,004		
		113 : 3,190,420	150 : 3,220,525	30 : 3,169,623	18 : 3,203,869		
		113 : 3,195,703	150 : 3,220,526	30 : 3,170,555	18 : 3,212,996		
		113 : 3,197,003		30 : 3,172,520	19 : 3,165,190		
		113 : 3,199,645		30 : 3,176,816	19 : 3,171,529		
		113 : 3,205,989		30 : 3,181,678	19 : 3,217,854		
		113 : 3,205,990		30 : 3,182,780	20 : 3,217,855		
		113 : 3,221,854		30 : 3,182,781	20 : 3,219,165		
		113 : 3,221,855		30 : 3,191,738	22 : 3,223,220		
		113 : 3,176,813		30 : 3,216,546	22 : 3,223,221		
		113 : 3,189,151		30 : 3,191,739	22 : 3,223,222		
		113 : 3,190,421		30 : 3,194,375	22 : 3,223,223		
		113 : 3,190,422		30 : 3,194,376	22 : 3,223,224		
		113 : 3,190,423		30 : 3,194,377	22 : 3,223,225		
		113 : 3,190,424		30 : 3,194,378	22 : 3,223,226		
		113 : 3,190,425		30 : 3,194,379	22 : 3,223,227		
		113 : 3,190,426		30 : 3,194,380	22 : 3,223,228		
		113 : 3,190,427		30 : 3,194,381	22 : 3,223,229		
		113 : 3,190,428		30 : 3,194,382	22 : 3,223,230		
		113 : 3,190,429		30 : 3,194,383	22 : 3,223,231		
		113 : 3,190,430		30 : 3,194,384	22 : 3,223,232		
		113 : 3,190,431		30 : 3,194,385	22 : 3,223,233		
		113 : 3,190,432		30 : 3,194,386	22 : 3,223,234		
		113 : 3,190,433		30 : 3,194,387	22 : 3,223,235		
		113 : 3,190,434		30 : 3,194,388	22 : 3,223,236		
		113 : 3,190,435		30 : 3,194,389	22 : 3,223,237		
		113 : 3,190,436		30 : 3,194,390	22 : 3,223,238		
		113 : 3,190,437		30 : 3,194,391	22 : 3,223,239		
		113 : 3,190,438		30 : 3,194,392	22 : 3,223,240		
		113 : 3,190,439		30 : 3,194,393	22 : 3,223,241		
		113 : 3,190,440		30 : 3,194,394	22 : 3,223,242		
		113 : 3,190,441		30 : 3,194,395	22 : 3,223,243		
		113 : 3,190,442		30 : 3,194,396	22 : 3,223,244		
		113 : 3,190,443		30 : 3,194,397	22 : 3,223,245		
		113 : 3,190,444		30 : 3,194,398	22 : 3,223,246		
		113 : 3,190,445		30 : 3,194,399	22 : 3,223,247		
		113 : 3,190,446		30 : 3,194,400	22 : 3,223,248		
		113 : 3,190,447		30 : 3,194,401	22 : 3,223,249		
		113 : 3,190,448		30 : 3,194,402	22 : 3,223,250		
		113 : 3,190,449		30 : 3,194,403	22 : 3,223,251		
		113 : 3,190,450		30 : 3,194,404	22 : 3,223,252		
		113 : 3,190,451		30 : 3,194,405	22 : 3,223,253		
		113 : 3,190,452		30 : 3,194,406	22 : 3,223,254		
		113 : 3,190,453		30 : 3,194,407	22 : 3,223,255		
		113 : 3,190,454		30 : 3,194,408	22 : 3,223,256		
		113 : 3,190,455		30 : 3,194,409	22 : 3,223,257		
		113 : 3,190,456		30 : 3,194,410	22 : 3,223,258		
		113 : 3,190,457		30 : 3,194,411	22 : 3,223,259		
		113 : 3,190,458		30 : 3,194,412	22 : 3,223,260		
		113 : 3,190,459		30 : 3,194,413	22 : 3,223,261		
		113 : 3,190,460		30 : 3,194,414	22 : 3,223,262		
		113 : 3,190,461		30 : 3,194,415	22 : 3,223,263		
		113 : 3,190,462		30 : 3,194,416	22 : 3,223,264		
		113 : 3,190,463		30 : 3,194,417	22 : 3,223,265		
		113 : 3,190,464		30 : 3,194,418	22 : 3,223,266		
		113 : 3,190,465		30 : 3,194,419	22 : 3,223,267		
		113 : 3,190,466		30 : 3,194,420	22 : 3,223,268		
		113 : 3,190,467		30 : 3,194,421	22 : 3,223,269		
		113 : 3,190,468		30 : 3,194,422	22 : 3,223,270		
		113 : 3,190,469		30 : 3,194,423	22 : 3,223,271		
		113 : 3,190,470		30 : 3,194,424	22 : 3,223,272		
		113 : 3,190,471		30 : 3,194,425	22 : 3,223,273		
		113 : 3,190,472		30 : 3,194,426	22 : 3,223,274		
		113 : 3,190,473		30 : 3,194,427	22 : 3,223,275		
		113 : 3,190,474		30 : 3,194,428	22 : 3,223,276		
		113 : 3,190,475		30 : 3,194,429	22 : 3,223,277		
		113 : 3,190,476		30 : 3,194,430	22 : 3,223,278		
		113 : 3,190,477		30 : 3,194,431	22 : 3,223,279		
		113 : 3,190,478		30 : 3,194,432	22 : 3,223,280		
		113 : 3,190,479		30 : 3,194,433	22 : 3,223,281		
		113 : 3,190,480		30 : 3,194,434	22 : 3,223,282		
		113 : 3,190,481		30 : 3,194,435	22 : 3,223,283		
		113 : 3,190,482		30 : 3,194,436	22 : 3,223,284		
		113 : 3,190,483		30 : 3,194,437	22 : 3,223,285		
		113 : 3,190,484		30 : 3,194,438	22 : 3,223,286		
		113 : 3,190,485		30 : 3,194,439	22 : 3,223,287		
		113 : 3,190,486		30 : 3,194,440	22 : 3,223,288		
		113 : 3,190,487		30 : 3,194,441	22 : 3,223,289		
		113 : 3,190,488		30 : 3,194,442	22 : 3,223,290		
		113 : 3,190,489		30 : 3,194,443	22 : 3,223,291		
		113 : 3,190,490		30 : 3,194,444	22 : 3,223,292		
		113 : 3,190,491		30 : 3,194,445	22 : 3,223,293		
		113 : 3,190,492		30 : 3,194,446	22 : 3,223,294		
		113 : 3,190,493		30 : 3,194,447	22 : 3,223,295		
		113 : 3,190,494		30 : 3,194,448	22 : 3,223,296		
		113 : 3,190,495		30 : 3,194,449	22 : 3,223,297		
		113 : 3,190,496		30 : 3,194,450	22 : 3,223,298		
		113 : 3,190,497		30 : 3,194,451	22 : 3,223,299		
		113 : 3,190,498		30 : 3,194,452	22 : 3,223,300		
		113 : 3,190,499		30 : 3,194,453	22 : 3,223,301		
		113 : 3,190,500		30 : 3,194,454	22 : 3,223,302		
		113 : 3,190,501		30 : 3,194,455	22 : 3,223,303		
		113 : 3,190,502		30 : 3,194,456	22 : 3,223,304		
		113 : 3,190,503		30 : 3,194,457	22 : 3,223,305		
		113 : 3,190,504		30 : 3,194,458	22 : 3,223,306		
		113 : 3,190,505		30 : 3,194,459	22 : 3,223,307		
		113 : 3,190,506		30 : 3,194,460	22 : 3,223,308		
		113 : 3,190,507		30 : 3,194,461	22 : 3,223,309		
		113 : 3,190,508		30 : 3,194,462	22 : 3,223,310		
		113 : 3,190,509		30 : 3,194,463	22 : 3,223,311		
		113 : 3,190,510		30 : 3,194,464	22 : 3,223,312		
		113 : 3,190,511		30 : 3,194,465	22 : 3,223,313		
		113 : 3,190,512		30 : 3,194,466	22 : 3,223,314		
		113 : 3,190,513		30 : 3,194,467	22 : 3,223,315		
		113 : 3,190,514		30 : 3,194,468	22 : 3,223,316		
		113 : 3,190,515		30 : 3,194,469	22 : 3,223,317		
		113 : 3,190,516		30 : 3,194,470	22 : 3,223,318		
		113 : 3,190,517		30 : 3,194,471	22 : 3,223,319		
		113 : 3,190,518		30 : 3,194,472	22 : 3,223,320		
		113 : 3,190,519		30 : 3,194,473	22 : 3,223,321		
		113 : 3,190,520		30 : 3,194,474	22 : 3,223,322		
		113 : 3,190,521		30 : 3,194,475	22 : 3,223,323		
		113 : 3,190,522		30 : 3,194,476	22 : 3,223,324		
		113 : 3,190,523		30 : 3,194,477	22 : 3,223,325		
		113 : 3,190,524		30 : 3,194,478	22 : 3,223,326		
		113 : 3,190,525		30 : 3,194,479	22 : 3,223,327		
		113 : 3,190,526		30 : 3,194,480	22 : 3,223,328		
		113 : 3,190,527		30 : 3,194,481	22 : 3,223,329		
		113 : 3,190,528					

Class 200—Con.	83	88	112	122	140	148
61.53: 3,226,504	3,197,590	3,171,919	3,189,709	3,174,015	3,211,865	3,215,805
54: 3,223,797	3,200,215	3,178,535	3,193,645	3,176,101	3,214,539	3,218,420
58: 3,179,765	3,204,055	3,179,767	3,194,921	3,182,152	3,221,128	3,218,421
59: 3,172,969	3,204,056	3,179,768	3,198,911	3,182,154	3,222,483	3,218,422
62: 3,167,621	3,206,572	3,180,953	3,207,874	3,183,328	3,226,512	3,221,129
62: 3,176,093	3,209,094	3,189,707	3,164,699	3,188,431	3,226,513	3,226,513
62: 3,167,129	3,216,621	3,198,905	3,171,925	3,190,988	3,171,935	3,171,935
62: 3,222,473	3,225,158	3,200,217	3,176,098	3,192,345	3,177,322	3,218,423
64: 3,211,850	3,167,623	3,201,543	3,176,099	3,193,648	3,178,540	3,223,810
68: 3,197,588	3,183,323	3,204,060	3,177,316	3,194,924	3,180,957	3,165,610
69: 3,169,179	3,185,789	3,205,325	3,180,954	3,196,234	3,180,958	3,166,659
69: 3,223,798	3,192,337	3,206,574	3,187,145	3,201,547	3,190,990	3,177,326
81: 3,179,766	3,211,853	3,207,872	3,187,146	3,204,064	3,198,914	3,179,776
81: 3,190,982	3,211,856	3,209,098	3,188,429	3,205,327	3,201,549	3,183,330
86: 3,189,700	3,165,606	3,209,099	3,192,343	3,209,104	3,166,658	3,183,331
86: 3,219,774	3,187,138	3,213,232	3,196,233	3,210,502	3,167,629	3,198,918
88: 3,189,701	3,188,422	3,214,535	3,197,591	3,211,863	3,171,936	3,200,223
89: 3,171,914	3,171,917	3,222,475	3,201,546	3,213,243	3,174,019	3,201,552
89: 3,171,915	3,164,696	3,226,507	3,202,786	3,218,415	3,176,102	3,205,331
62 : 3,206,570	3,164,697	3,171,001	3,207,875	3,217,323	3,177,324	3,214,555
67 : 3,165,603	3,164,698	3,189,708	3,213,239	3,222,480	3,178,541	3,199,993
3,165,604	3,165,607	3,206,575	3,213,240	3,222,481	3,178,542	3,198,919
3,170,998	3,165,608	3,192,341	3,213,245	3,223,804	3,179,775	3,217,127
3,170,999	3,166,652	3,193,642	3,213,246	3,225,165	3,182,156	3,223,811
3,172,970	3,167,624	3,209,100	3,218,412	3,226,510	3,185,797	3,226,514
3,172,971	3,167,625	3,213,233	3,218,412	3,226,509	3,185,798	3,171,938
3,172,972	3,168,626	3,217,123	3,226,509	3,171,926	3,185,800	3,174,020
3,175,060	3,168,627	3,221,120	3,171,926	3,177,317	3,187,147	3,174,021
3,178,528	3,170,053	3,215,796	3,177,317	3,177,317	3,188,432	3,174,022
3,178,529	3,171,918	3,215,797	3,178,536	3,178,536	3,189,714	3,176,105
3,178,530	3,172,975	3,218,408	3,184,567	3,184,567	3,189,715	3,176,105
3,184,561	3,172,976	3,171,920	3,188,430	3,188,430	3,190,991	3,176,105
3,185,786	3,174,008	3,184,565	3,211,859	3,211,859	3,190,992	3,183,332
3,187,130	3,174,009	3,185,790	3,213,247	3,194,925	3,192,347	3,192,349
3,187,131	3,175,062	3,198,906	3,215,807	3,202,787	3,192,348	3,192,350
3,187,132	3,176,097	3,198,907	3,222,477	3,217,126	3,196,236	3,193,651
3,189,703	3,177,315	3,198,908	3,189,710	3,222,482	3,198,915	3,194,929
3,194,909	3,178,532	3,200,218	3,180,955	3,211,002	3,200,222	3,196,237
3,194,911	3,178,533	3,209,101	3,198,912	3,178,538	3,201,550	3,196,238
3,194,912	3,178,534	3,213,235	3,200,221	3,194,926	3,202,790	3,198,920
3,197,589	3,182,151	3,213,236	3,218,413	3,202,788	3,206,580	3,198,921
3,200,213	3,184,563	3,219,779	3,222,478	3,167,628	3,209,108	3,200,224
3,201,538	3,225,161	3,219,779	3,225,162	3,196,235	3,210,504	3,207,879
3,207,868	3,184,564	3,166,653	3,167,627	3,197,593	3,210,505	3,214,556
3,210,497	3,187,139	3,168,628	3,169,180	3,172,978	3,211,866	3,214,557
3,213,227	3,187,140	3,211,857	3,171,921	3,190,989	3,211,867	3,217,128
3,213,228	3,187,141	3,211,858	3,171,922	3,177,319	3,212,418	3,217,128
3,222,474	3,188,423	3,179,769	3,171,927	3,184,570	3,222,484	3,219,784
3,225,156	3,188,424	3,206,576	3,171,928	3,197,594	3,225,167	3,221,130
68 : 3,167,622	3,188,425	3,187,142	3,171,929	3,209,105	3,167,630	3,223,812
3,185,787	3,188,426	3,213,237	3,171,930	3,182,155	3,180,959	3,226,515
3,213,229	3,188,427	3,194,918	3,171,931	3,194,927	3,180,960	3,218,424
70 : 3,190,983	3,189,705	3,200,219	3,171,932	3,202,789	3,214,541	3,204,066
76 : 3,196,230	3,189,706	3,201,544	3,183,325	3,204,065	3,214,542	3,176,106
77 : 3,187,133	3,190,984	3,215,798	3,185,792	3,209,106	3,171,004	3,190,994
3,219,776	3,190,985	3,218,409	3,185,793	3,213,244	3,172,977	3,192,347
80 : Re. 25,854	3,192,338	3,223,802	3,185,794	3,213,245	3,188,437	3,219,547
3,172,973	3,192,339	3,172,977	3,193,646	3,194,928	3,192,352	3,192,353
3,184,562	3,192,340	3,215,799	3,193,647	3,214,543	3,194,929	3,192,354
3,185,788	3,194,917	3,219,780	3,194,922	3,214,544	3,194,930	3,192,355
3,193,639	3,196,231	Re. 25,731	3,204,063	3,213,244	3,194,931	3,192,356
3,194,913	3,196,232	3,167,626	3,210,500	3,213,245	3,194,932	3,192,357
3,194,914	3,198,902	3,168,629	3,210,501	3,213,246	3,194,933	3,192,358
3,202,780	3,198,903	3,175,063	3,211,860	3,213,247	3,194,934	3,192,359
3,206,571	3,198,904	3,179,771	3,211,861	3,213,248	3,194,935	3,192,360
3,209,093	3,200,216	3,194,919	3,211,862	3,213,249	3,194,936	3,192,361
3,219,777	3,201,539	3,194,920	3,213,241	3,213,250	3,194,937	3,192,362
3,225,157	3,201,540	3,198,909	3,213,242	3,213,251	3,194,938	3,192,363
81 : 3,176,094	3,201,541	3,198,910	3,213,243	3,213,252	3,194,939	3,192,364
3,182,148	3,201,542	3,202,785	3,213,244	3,213,253	3,194,940	3,192,365
5 : 3,182,149	3,202,781	3,204,061	3,213,245	3,213,254	3,194,941	3,192,366
8 : 3,188,419	3,202,782	3,206,577	3,213,246	3,213,255	3,194,942	3,192,367
8 : 3,188,420	3,202,783	3,215,800	3,213,247	3,213,256	3,194,943	3,192,368
9 : 3,165,605	3,202,784	3,218,410	3,213,248	3,213,257	3,194,944	3,192,369
9 : 3,171,915	3,204,057	3,219,781	3,213,249	3,213,258	3,194,945	3,192,370
9 : 3,174,007	3,204,058	3,222,476	3,213,250	3,213,259	3,194,946	3,192,371
9 : 3,187,134	3,204,059	3,226,508	3,213,251	3,213,260	3,194,947	3,192,372
9 : 3,188,421	3,205,323	3,168,630	3,213,252	3,213,261	3,194,948	3,192,373
9 : 3,193,640	3,205,324	3,187,143	3,213,253	3,213,262	3,194,949	3,192,374
9 : 3,193,641	3,209,095	3,187,144	3,213,254	3,213,263	3,194,950	3,192,375
9 : 3,198,901	3,209,096	3,192,342	3,213,255	3,213,264	3,194,951	3,192,376
9 : 3,200,214	3,209,097	3,204,062	3,213,256	3,213,265	3,194,952	3,192,377
9 : 3,226,505	3,210,498	3,207,873	3,213,257	3,213,266	3,194,953	3,192,378
82 : 3,171,000	3,210,499	3,213,238	3,213,258	3,213,267	3,194,954	3,192,379
3,171,916	3,211,854	3,194,923	3,213,259	3,213,268	3,194,955	3,192,380
3,172,974	3,211,855	3,175,064	3,213,260	3,213,269	3,194,956	3,192,381
3,173,061	3,213,230	3,185,791	3,213,261	3,213,270	3,194,957	3,192,382
3,207,871	3,213,231	3,188,428	3,213,262	3,213,271	3,194,958	3,192,383
3,211,851	3,214,533	3,193,643	3,213,263	3,213,272	3,194,959	3,192,384
3,211,852	3,214,534	3,193,644	3,213,264	3,213,273	3,194,960	3,192,385
83 : 3,176,095	3,215,794	3,201,545	3,213,265	3,213,274	3,194,961	3,192,386
3,177,313	3,215,795	3,209,102	3,213,266	3,213,275	3,194,962	3,192,387
3,177,314	3,217,122	3,214,537	3,213,267	3,213,276	3,194,963	3,192,388
3,178,531	3,218,406	3,221,121	3,213,268	3,213,277	3,194,964	3,192,389
3,182,150	3,218,407	3,219,782	3,213,269	3,213,278	3,194,965	3,192,390
3,183,322	3,223,799	3,206,578	3,213,270	3,213,279	3,194,966	3,192,391
3,187,135	3,223,800	3,215,801	3,213,271	3,213,280	3,194,967	3,192,392
3,187,136	3,223,801	3,223,801	3,213,272	3,213,281	3,194,968	3,192,393
3,187,137	3,223,802	3,223,802	3,213,273	3,213,282	3,194,969	3,192,394
3,189,704	3,223,803	3,223,803	3,213,274	3,213,283	3,194,970	3,192,395
3,194,915	3,223,804	3,223,804	3,213,275	3,213,284	3,194,971	3,192,396
3,194,916	3,223,805	3,223,805	3,213,276	3,213,285	3,194,972	3,192,397

166	: 3,177,330	170	: 3,218,428	144	: 3,170,851	18	: 3,172,828	73	: 3,193,482	162	: 3,174,921	299	: 3,198,724
	3,180,960		3,226,521		3,183,175		3,178,362		3,193,483		3,177,133		3,208,929
	3,180,961	171	: 3,196,240		3,190,815		3,194,748		3,218,245		3,179,580		3,211,639
	3,182,159		3,210,508	153	: 3,177,129		3,202,588	74	: 3,165,459		3,182,008	301	: 3,164,540
	3,183,334	172	: 3,172,984	154	: 3,189,531		3,213,003		3,205,154		3,211,635		3,165,460
	3,184,573		3,172,985		3,216,909	160	: 3,220,939		3,218,246		3,218,247		3,179,583
	3,185,805		3,172,986		3,165,454		3,219,551	75	: 3,200,053		3,219,565		3,192,147
	3,187,149		3,180,964		3,192,130		3,224,947	79	: 3,200,054	163	: 3,190,825		3,192,148
	3,188,435		3,188,439		3,224,947		3,226,308		3,219,562		3,196,099		3,196,725
	3,188,436		3,198,925	161	: 3,219,551		3,220,936	80	: 3,214,357		3,211,636		3,201,339
	3,189,719		3,201,557		3,220,936		3,217,824	82	: 3,172,830	164	: 3,169,914		3,216,920
	3,189,720		3,206,585	163	: 3,212,999		3,210,006	86	: 3,216,914		3,169,915		3,219,572
	3,189,721		3,207,880	172	: 3,201,332		3,213,004	87	: 3,179,579	171	: 3,224,952		3,219,573
	3,190,995		3,211,878	173	: 3,172,824		3,167,491		3,220,941	173	: 3,223,605		3,223,612
	3,190,996		3,211,879		3,174,914		3,202,589	95	: 3,180,811	176	: 3,186,930	302	: 3,186,933
	3,192,351				3,180,805		3,197,391		3,203,882	180	: 3,166,486		3,190,827
	3,193,652				3,186,924		3,172,797		3,219,563		3,197,393		3,202,601
	3,193,653				3,192,131		3,172,829		3,194,749		3,203,887		3,205,160
	3,193,654				3,192,132		3,174,916		3,177,131		3,207,684		3,205,161
	3,194,931				3,194,747		3,175,963		3,222,267		3,219,567		3,207,686
	3,194,932				3,197,386	37	: 3,174,917		3,221,333		3,223,606	312	: 3,166,488
	3,194,933				3,197,387		3,175,964		3,203,006	181	: 3,200,057		3,180,816
	3,194,934				3,203,875		3,205,153	105	: 3,180,812		3,200,058		3,185,638
	3,200,225				3,207,677		3,216,912		3,213,007		3,223,607		3,205,162
	3,200,226				3,213,001	38	: 3,179,575	106	: 3,202,593	186	: 3,197,394	313	: 3,215,616
	3,201,554				3,216,910		3,179,576	108	: 3,201,334		3,200,059	315	: 3,220,943
	3,201,555				3,219,552		3,180,807		3,215,611		3,177,134	320	: 3,198,726
	3,201,556				3,219,553		3,190,819		3,217,965	193	: 3,184,400	321	: 3,214,364
	3,204,072				3,219,554		3,192,137		3,200,055		3,201,338		
	3,205,332				3,197,474		3,193,474		3,198,720	195	: 3,170,860		
	3,206,584				3,200,050		3,202,591		3,180,813		3,174,922		
	3,209,110				3,226,306		3,222,266		3,188,283		3,179,581		
	3,211,873				3,164,536	39	: 3,226,309	130	: 3,174,919		3,179,585		
	3,211,874				3,206,380		3,213,005		3,196,092		3,189,533		
	3,211,875				3,206,381		3,186,925		3,205,155		3,190,826		
	3,213,253				3,214,351		3,207,679	131	: 3,180,814		3,192,144		
	3,213,254				3,214,352		3,174,918		3,180,815		3,196,100		
	3,213,255				3,165,455		3,174,918	140	: 3,202,594		3,205,158		
	3,214,558				3,175,960		3,202,590		3,203,883		3,206,386		
	3,214,559				3,224,948	44	: 3,168,452		3,206,385		3,208,926		
	3,218,425				3,219,555		3,168,453		3,207,682		3,210,261		
	3,218,426				3,223,596		3,168,454		3,203,884		3,211,638		
	3,219,785				3,175,961	46	: 3,215,610		3,213,008		3,211,640		
	3,222,486				3,174,915		3,219,558		3,223,602		3,213,010		
	3,222,487				3,190,816	47	: 3,206,382	141	: 3,190,822		3,216,915		
	3,222,488				3,192,133		3,207,680		3,193,485		3,223,608		
	3,222,489				3,193,473	49	: 3,170,853		3,207,683		3,223,609		
	3,223,814				3,174,911		3,170,852	143	: 3,174,920		3,226,313		
	3,225,169				3,177,125	236	: 3,175,962		3,184,399		3,226,313		
	3,226,517				3,178,360		3,190,817		3,188,284	196	: 3,166,487		
	3,226,519				3,182,005		3,196,087		3,192,141		3,169,105		
167	: 3,168,636				3,188,281		3,200,051		3,196,093		3,196,101		
	3,170,057				3,200,048		3,210,260		3,196,094		3,208,928		
	3,171,006				3,203,871		3,211,633		3,202,595		3,215,613		
	3,174,023				3,203,872	238	: 3,169,912		3,208,973		3,216,916		
	3,179,777				3,212,987	241	: 3,192,134		3,208,924	197	: 3,179,582		
	3,186,437				3,219,547		3,196,088		3,219,564		3,186,931		
	3,192,352				3,170,849	248	: 3,172,825		3,223,603		3,226,314		
	3,196,239				3,171,794		3,214,353	52	: 3,179,577	145	: 3,167,493		
	3,197,507				3,174,912		3,179,578		3,179,578	146	: 3,194,750		
	3,197,598				3,182,006		3,203,878		3,216,913	147	: 3,168,455		
	3,198,923				3,196,085		3,219,560		3,208,925		3,182,007		
	3,209,111				3,206,378		3,219,560		3,220,922		3,201,335		
	3,215,806				3,211,630		3,185,637	55	: 3,185,637		3,208,925		
	3,217,129				3,212,998	56	: 3,180,809		3,220,942		3,222,268		
	3,222,490				3,197,388		3,203,879		3,223,604		3,223,604		
	3,225,170				3,198,715		3,206,384	148	: 3,202,596		3,205,155		
	3,226,520				3,207,678		3,208,922	149	: 3,192,142		3,186,932		
168	: 3,171,007				3,208,919		3,214,355		3,196,095		3,198,722		
	3,172,983				3,214,354		3,223,601		3,192,143	151	: 3,192,143		
	3,177,331				3,215,609	58	: 3,202,592	154	: 3,225,904		3,202,599		
	3,178,547				3,216,911		3,164,537		3,168,456		3,202,599		
	3,180,962				3,218,242		3,164,538		3,170,858		3,207,685		
	3,182,160				3,219,556		3,170,856		3,177,132		3,214,360		
	3,182,161				3,220,937		3,170,857		3,196,096		3,216,917		
	3,182,162				3,222,264		3,177,130		3,200,056		3,219,568		
	3,182,163				3,222,265		3,180,810		3,201,336		3,219,569		
	3,184,574				3,223,597		3,197,392		3,202,597		3,223,610		
	3,185,806				3,223,598	60	: 3,173,849		3,205,156		3,223,610		
	3,188,438				3,197,389		3,196,090		3,214,358	225	: 3,219,570		
	3,200,227				3,177,127		3,196,091		3,214,359		3,182,010		
	3,200,228				3,218,241		3,219,561		3,215,612	227	: 3,192,145		
	3,204,073				3,220,934		3,192,138		3,224,949	234	: 3,216,917		
	3,209,103				3,198,716		3,203,880		3,226,312	236	: 3,168,458		
	3,210,507				3,198,717		3,203,881		3,186,929	238	: 3,222,268		
	3,211,876				3,208,920		3,188,282		3,170,859	239	: 3,170,861		
	3,211,877				3,167,489		3,192,139		3,173,850	240	: 3,192,146		
	3,215,807				3,192,135		3,226,310		3,190,823	244	: 3,170,862		
	3,215,808				3,192,136		3,178,363		3,198,721	245	: 3,216,918		
	3,217,130				3,197,390		3,186,927		3,201,337	249	: 3,215,614		
	3,218,427				3,203,872	13	: 3,192,140		3,164,539	255	: 3,214,362		
	3,221,131				3,167,490		3,207,681		3,169,103	258	: 3,216,919		
169	: 3,171,008				3,171,796		3,167,492		3,189,824	269	: 3,222,270		
	3,186,981				3,198,718		3,226,311		3,196,097	270	: 3,222,271		
	3,187,120				3,208,921		3,169,913		3,196,098	274	: 3,189,824		
	3,177,332				3,220,938		3,214,356		3,203,885	275	: 3,210,262		
	3,180,963				3,223,599		3,193,475		3,203,886	279	: 3,202,600		
	3,183,335				3,211,634	16	: 3,211,634		3,205,157		3,215,615		
	3,197,599				3,165,456	18	: 3,165,456		3,213,009	284	: 3,218,248		
	3,198,924				3,165,457		3,165,458		3,224,950		3,197,395		
	3,200,229				3,172,826		3,172,827		3,224,951	297	: 3,223,611		
	3,205,333				3,193,481		3,193,481		3,224,951	298	: 3,189,535		
									3,224,951	299	: 3,198,723		
									RE.25.937				

Class 206—Con.	52 : 3,202,269	65 : 3,186,544	11 : 3,203,888	110 : 3,222,271	263 : 3,180,821	81 : 3,187,892
42 : 3,203,541	3,206,016	3,186,545	3,208,930	111 : 3,166,491	3,196,103	3,209,908
3,208,585	3,187,889	3,224,954	3,224,954	264 : 3,165,463	3,165,463	3,216,567
3,204,758	3,209,904	3,189,175	3,170,864	82 : 3,204,765	3,166,494	3,204,765
3,207,299	3,195,722	3,189,176	3,214,365	84 : 3,206,024	3,169,918	3,206,024
3,225,913	3,208,586	3,191,769	3,216,921	85 : 3,173,543	3,169,919	3,173,543
44 : 3,167,179	3,164,249	3,191,770	3,223,613	88 : 3,170,573	3,173,860	3,209,909
3,189,170	3,164,250	3,193,095	3,173,851	89 : 3,170,573	3,180,822	3,170,573
3,208,583	3,164,695	3,195,723	3,200,060	90 : 3,176,472	3,182,016	3,195,724
3,216,560	3,165,201	3,196,229	3,223,614	91 : 3,176,472	3,189,540	3,197,027
3,224,568	3,166,186	3,198,326	3,206,387	92 : 3,176,472	3,190,831	3,206,025
11 : 3,199,669	3,167,181	3,198,327	3,208,931	93 : 3,176,472	3,192,153	3,207,308
45 : 3,190,438	3,168,193	3,198,328	3,223,615	94 : 3,176,472	3,196,104	3,168,196
3,190,439	3,175,680	3,198,329	3,223,615	95 : 3,176,472	3,218,251	3,206,026
11 : 3,172,530	3,182,791	3,200,943	3,223,615	96 : 3,176,472	3,218,251	3,211,289
13 : 3,209,903	3,184,054	3,200,944	3,223,615	97 : 3,176,472	3,218,251	3,211,289
14 : 3,165,200	3,187,888	3,202,274	3,223,615	98 : 3,176,472	3,218,251	3,211,289
14 : 3,181,694	3,191,767	3,202,275	3,223,615	99 : 3,176,472	3,218,251	3,211,289
14 : 3,184,046	3,191,768	3,202,276	3,223,615	100 : 3,176,472	3,218,251	3,211,289
14 : 3,185,292	3,197,024	3,206,019	3,206,019	101 : 3,176,472	3,218,251	3,211,289
14 : 3,206,013	3,199,671	3,206,020	3,206,020	102 : 3,176,472	3,218,251	3,211,289
19 : 3,182,790	3,202,270	3,207,303	3,207,303	103 : 3,176,472	3,218,251	3,211,289
19 : 3,206,014	3,202,271	3,208,588	3,208,588	104 : 3,176,472	3,218,251	3,211,289
20 : 3,167,180	3,202,272	3,208,589	3,208,589	105 : 3,176,472	3,218,251	3,211,289
21 : 3,185,293	3,204,762	3,212,634	3,196,102	106 : 3,176,472	3,218,251	3,211,289
21 : 3,219,181	3,206,017	3,212,635	3,226,316	107 : 3,176,472	3,218,251	3,211,289
22 : 3,191,766	3,211,284	3,212,636	3,172,832	108 : 3,176,472	3,218,251	3,211,289
24 : 3,168,192	3,212,632	3,214,015	3,189,537	109 : 3,176,472	3,218,251	3,211,289
25 : 3,185,294	3,212,633	3,214,016	3,170,865	110 : 3,176,472	3,218,251	3,211,289
31 : 3,168,952	3,214,012	3,215,266	3,174,924	111 : 3,176,472	3,218,251	3,211,289
31 : 3,185,295	3,214,013	3,216,565	3,197,396	112 : 3,176,472	3,218,251	3,211,289
31 : 3,180,660	3,215,264	3,217,872	3,224,957	113 : 3,176,472	3,218,251	3,211,289
31 : 3,195,442	3,216,562	3,217,873	3,193,446	114 : 3,176,472	3,218,251	3,211,289
31 : 3,200,942	3,216,563	3,217,874	3,166,489	115 : 3,176,472	3,218,251	3,211,289
31 : 3,203,542	3,217,869	3,217,875	3,168,459	116 : 3,176,472	3,218,251	3,211,289
31 : 3,204,759	3,224,574	3,219,182	3,203,889	117 : 3,176,472	3,218,251	3,211,289
31 : 3,220,542	3,225,916	3,219,183	3,219,574	118 : 3,176,472	3,218,251	3,211,289
31 : 3,223,230	3,225,917	3,220,545	3,172,833	119 : 3,176,472	3,218,251	3,211,289
31 : 3,224,569	3,225,918	3,221,874	3,172,834	120 : 3,176,472	3,218,251	3,211,289
32 : 3,195,718	3,225,919	3,221,875	3,172,835	121 : 3,176,472	3,218,251	3,211,289
33 : 3,176,836	3,225,920	3,221,876	3,183,178	122 : 3,176,472	3,218,251	3,211,289
33 : 3,207,300	3,225,921	3,221,877	3,189,538	123 : 3,176,472	3,218,251	3,211,289
34 : 3,172,531	3,225,922	3,221,878	3,200,061	124 : 3,176,472	3,218,251	3,211,289
34 : 3,178,017	3,225,923	3,221,879	3,203,890	125 : 3,176,472	3,218,251	3,211,289
34 : 3,184,047	3,225,924	3,221,880	3,206,389	126 : 3,176,472	3,218,251	3,211,289
34 : 3,199,670	3,225,925	3,221,881	3,209,947	127 : 3,176,472	3,218,251	3,211,289
34 : 3,217,867	3,225,926	3,221,882	3,172,836	128 : 3,176,472	3,218,251	3,211,289
34 : 3,220,543	3,225,927	3,221,883	3,174,925	129 : 3,176,472	3,218,251	3,211,289
46 : 3,170,568	3,225,928	3,221,884	3,177,135	130 : 3,176,472	3,218,251	3,211,289
3,171,539	3,225,929	3,221,885	3,177,136	131 : 3,176,472	3,218,251	3,211,289
3,173,535	3,225,930	3,221,886	3,177,137	132 : 3,176,472	3,218,251	3,211,289
3,176,837	3,225,931	3,221,887	3,177,138	133 : 3,176,472	3,218,251	3,211,289
3,180,486	3,225,932	3,221,888	3,177,139	134 : 3,176,472	3,218,251	3,211,289
3,184,048	3,225,933	3,221,889	3,177,140	135 : 3,176,472	3,218,251	3,211,289
3,184,049	3,225,934	3,221,890	3,177,141	136 : 3,176,472	3,218,251	3,211,289
3,185,296	3,225,935	3,221,891	3,177,142	137 : 3,176,472	3,218,251	3,211,289
3,186,541	3,225,936	3,221,892	3,177,143	138 : 3,176,472	3,218,251	3,211,289
3,187,887	3,225,937	3,221,893	3,177,144	139 : 3,176,472	3,218,251	3,211,289
3,190,441	3,225,938	3,221,894	3,177,145	140 : 3,176,472	3,218,251	3,211,289
3,190,442	3,225,939	3,221,895	3,177,146	141 : 3,176,472	3,218,251	3,211,289
3,194,395	3,225,940	3,221,896	3,177,147	142 : 3,176,472	3,218,251	3,211,289
3,198,323	3,225,941	3,221,897	3,177,148	143 : 3,176,472	3,218,251	3,211,289
3,198,324	3,225,942	3,221,898	3,177,149	144 : 3,176,472	3,218,251	3,211,289
3,203,543	3,225,943	3,221,899	3,177,150	145 : 3,176,472	3,218,251	3,211,289
3,204,760	3,225,944	3,221,900	3,177,151	146 : 3,176,472	3,218,251	3,211,289
3,206,015	3,225,945	3,221,901	3,177,152	147 : 3,176,472	3,218,251	3,211,289
3,208,584	3,225,946	3,221,902	3,177,153	148 : 3,176,472	3,218,251	3,211,289
3,211,282	3,225,947	3,221,903	3,177,154	149 : 3,176,472	3,218,251	3,211,289
3,211,283	3,225,948	3,221,904	3,177,155	150 : 3,176,472	3,218,251	3,211,289
3,214,010	3,225,949	3,221,905	3,177,156	151 : 3,176,472	3,218,251	3,211,289
3,214,011	3,225,950	3,221,906	3,177,157	152 : 3,176,472	3,218,251	3,211,289
3,216,561	3,225,951	3,221,907	3,177,158	153 : 3,176,472	3,218,251	3,211,289
3,217,868	3,225,952	3,221,908	3,177,159	154 : 3,176,472	3,218,251	3,211,289
3,220,544	3,225,953	3,221,909	3,177,160	155 : 3,176,472	3,218,251	3,211,289
3,221,872	3,225,954	3,221,910	3,177,161	156 : 3,176,472	3,218,251	3,211,289
47 : Re.25,781	3,225,955	3,221,911	3,177,162	157 : 3,176,472	3,218,251	3,211,289
3,171,540	3,225,956	3,221,912	3,177,163	158 : 3,176,472	3,218,251	3,211,289
3,179,244	3,225,957	3,221,913	3,177,164	159 : 3,176,472	3,218,251	3,211,289
3,180,487	3,225,958	3,221,914	3,177,165	160 : 3,176,472	3,218,251	3,211,289
3,184,050	3,225,959	3,221,915	3,177,166	161 : 3,176,472	3,218,251	3,211,289
3,184,051	3,225,960	3,221,916	3,177,167	162 : 3,176,472	3,218,251	3,211,289
3,184,052	3,225,961	3,221,917	3,177,168	163 : 3,176,472	3,218,251	3,211,289
3,189,171	3,225,962	3,221,918	3,177,169	164 : 3,176,472	3,218,251	3,211,289
3,193,092	3,225,963	3,221,919	3,177,170	165 : 3,176,472	3,218,251	3,211,289
3,195,719	3,225,964	3,221,920	3,177,171	166 : 3,176,472	3,218,251	3,211,289
3,203,544	3,225,965	3,221,921	3,177,172	167 : 3,176,472	3,218,251	3,211,289
3,204,761	3,225,966	3,221,922	3,177,173	168 : 3,176,472	3,218,251	3,211,289
3,207,301	3,225,967	3,221,923	3,177,174	169 : 3,176,472	3,218,251	3,211,289
3,215,263	3,225,968	3,221,924	3,177,175	170 : 3,176,472	3,218,251	3,211,289
3,223,231	3,225,969	3,221,925	3,177,176	171 : 3,176,472	3,218,251	3,211,289
3,224,570	3,225,970	3,221,926	3,177,177	172 : 3,176,472	3,218,251	3,211,289
3,224,571	3,225,971	3,221,927	3,177,178	173 : 3,176,472	3,218,251	3,211,289
3,224,572	3,225,972	3,221,928	3,177,179	174 : 3,176,472	3,218,251	3,211,289
3,225,914	3,225,973	3,221,929	3,177,180	175 : 3,176,472	3,218,251	3,211,289
3,225,915	3,225,974	3,221,930	3,177,181	176 : 3,176,472	3,218,251	3,211,289
51 : 3,189,172	3,225,975	3,221,931	3,177,182	177 : 3,176,472	3,218,251	3,211,289
52 : 3,173,536	3,225,976	3,221,932	3,177,183	178 : 3,176,472	3,218,251	3,211,289
3,173,537	3,225,977	3,221,933	3,177,184	179 : 3,176,472	3,218,251	3,211,289
3,178,018	3,225,978	3,221,934	3,177,185	180 : 3,176,472	3,218,251	3,211,289
3,184,053	3,225,979	3,221,935	3,177,186	181 : 3,176,472	3,218,251	3,211,289
3,189,173	3,225,980	3,221,936	3,177,187	182 : 3,176,472	3,218,251	3,211,289
3,192,794	3,225,981	3,221,937	3,177,188	183 : 3,176,472	3,218,251	3,211,289
3,195,721	3,225,982	3,221,938	3,177,189	184 : 3,176,472	3,218,251	3,211,289

7	: 3,168,465	83	: 3,216,570	195	: 3,195,727	374	: 3,199,681	41	: 3,186,554	86	: 3,175,696	177	: 3,212,648
	3,186,939	84	: 3,215,272		3,202,285		3,224,589		3,216,580		3,178,033		3,217,894
	3,219,575	86	: 3,186,549		3,206,032	376	: 3,171,809		3,217,890		3,180,495	178	: 3,174,629
8	: 3,180,824		3,204,766		3,207,313	387	: 3,169,922		3,164,254		3,184,072		3,194,409
	3,224,964	89	: 3,164,550		3,207,314	391	: 3,168,471		3,165,204		3,186,557		3,197,035
	3,226,318	90	: 3,216,571		3,219,189		3,206,035		3,174,626		3,198,342		3,215,280
10	: 3,226,318		3,224,583	197	: 3,187,897	400	: 3,197,030	43	: 3,171,542		3,220,559	180	: 3,215,281
11	: 3,188,288	91	: 3,197,029		3,204,768	402	: 3,174,624		3,182,806	87	: 3,172,540	182	: 3,166,199
	3,219,576		3,224,584		3,215,276	404	: 3,175,690		3,202,290		3,185,312		3,186,561
12	: 3,196,105	94	: 3,168,466	198	: 3,214,024		3,175,691	45	: 3,171,543		3,187,903		3,194,410
14	: 3,194,756		3,221,878	203	: 3,194,400		3,200,951		3,185,308		3,191,777	184	: 3,202,298
17	: 3,219,577	96	: 3,176,844	205	: 3,173,866		3,225,935		3,189,184		3,198,343		3,216,587
19	: 3,206,396		3,182,800		3,200,949	438	: 3,224,590		3,195,733		3,202,292		
	3,206,397		3,220,552	207	: 3,182,801	440	: 3,224,591		3,216,581		3,204,777		
20	: 3,173,862		3,223,240	209	: 3,198,333	443	: 3,204,771	46	: 3,185,309		3,212,646		
21	: 3,177,139		3,223,241		3,198,334	444	: 3,194,401	47	: 3,187,900	88	: 3,182,809	3	: 3,172,543
	3,215,620	97	: 3,206,030	212	: 3,182,802	445	: 3,173,868	48	: 3,207,319		3,186,558		3,219,197
	3,215,621		3,214,019	217	: 3,215,277	448	: 3,217,889		3,221,892		3,198,344		3,220,560
22	: 3,170,867		3,216,572		3,220,554	449	: 3,219,192	49	: 3,166,194	89	: 3,194,405	4	: 3,191,778
	3,171,799	98	: Re.25,865	220	: 3,216,573	457	: 3,165,472		3,166,195	90	: 3,209,919	8	: 3,179,549
	3,211,645	99	: 3,193,099	222	: 3,170,871		3,186,552		3,168,198	94.5	: 3,217,893		3,174,630
	3,216,930	101	: 3,217,883	223	: 3,164,551		3,198,336		3,172,538	96	: 3,202,293		3,181,707
23	: 3,214,368	104	: 3,194,399		3,195,728		3,200,952		3,175,698	99	: 3,214,032		3,197,036
24	: 3,167,504		3,212,639		3,216,574		3,200,953		3,182,807	100	: 3,194,406	11	: 3,179,259
	3,174,927	106	: 3,221,882		3,221,882	460	: 3,206,036		3,190,453		3,211,295	14	: 3,176,853
	3,196,106	107	: 3,169,109	228	: 3,221,883	465	: 3,170,875		3,194,402	104	: 3,185,313		3,190,456
	3,200,067		3,172,847	230	: 3,204,769	470	: 3,200,954		3,197,031	105.1	: 3,189,188	15	: 3,204,780
	3,201,346	108	: Re.25,761	232	: 3,207,315	479	: 3,199,682		3,198,339	112	: 3,175,691	17	: 3,223,248
	3,213,016		3,168,467		3,165,469	484	: 3,209,916		3,198,340		3,224,592	35	: 3,173,550
	3,214,369		3,214,020		3,168,469		3,209,917		3,200,959		3,226,318		3,216,588
	3,215,623		3,214,021		3,185,304		3,216,578		3,202,291		3,224,596	38	: 3,221,896
	3,223,619		3,217,884		3,224,585	486	: 3,203,551		3,203,552	117	: 3,176,850	39	: 3,199,685
	3,224,965		3,219,188		3,225,929	487	: 3,178,028		3,203,553	118	: 3,179,256		3,200,963
26	: 3,183,184		3,220,553	238	: 3,189,179		3,187,899		3,203,554		3,182,810		3,217,899
	3,183,185	114	: 3,165,466	239	: 3,168,470	488	: 3,195,730		3,207,320		3,187,904	46	: 3,189,189
	3,218,253		3,225,930	241	: 3,225,930	492	: 3,189,182		3,208,598	119	: 3,181,702		3,194,411
28	: 3,167,505		3,199,676	242	: 3,219,190		3,200,955	50	: 3,168,954		3,203,556		3,194,412
30	: 3,180,825	117	: 3,167,507		3,221,884	493	: 3,174,625		3,176,849		3,198,341		3,185,314
	3,186,940		3,190,445		3,223,243		3,224,592		3,198,341	03	: 3,190,455	49	: 3,185,313
	3,186,941		3,193,100	243	: 3,186,551	497.1	: 3,219,193		3,216,582	15	: 3,173,548	55	: 3,187,903
	3,197,401	120	: 3,175,687	247	: 3,169,111	501	: 3,216,579	51	: 3,179,254	15	: 3,176,851		3,194,413
	3,216,931		3,179,252		3,223,244	502	: 3,215,278		3,180,493	15	: 3,206,037		3,214,033
	3,223,620	121	: 3,215,273	249	: 3,206,033	508	: 3,219,194		3,216,583	15	: 3,214,033	58	: 3,180,499
31	: 3,179,587		3,225,928	250	: 3,167,508	510	: 3,165,473	55	: 3,191,776	16	: 3,216,258		3,191,779
	3,189,541	126	: 3,185,302		3,214,025	512	: 3,204,772	57	: 3,174,627	123	: 3,166,198		3,209,920
32	: 3,216,932		3,190,446	251	: 3,190,451	519	: 3,175,692	59	: 3,172,539		3,174,628	59	: 3,187,900
33	: 3,193,498	128	: 3,199,677		3,225,931		3,184,065		3,189,185		3,197,033		3,198,343
	3,205,168	130	: 3,165,467	253	: 3,178,024		3,224,593		3,200,960	126	: 3,165,206		3,202,299
	3,208,934		3,166,498	256	: 3,189,180		3,225,936		3,211,293		3,169,640		3,223,250
	3,215,624		3,184,063	259	: 3,199,679		3,214,026		3,216,584		3,172,542		3,224,599
37	: 3,215,625		3,184,063	266	: 3,169,112	521	: 3,214,026		3,221,893		3,176,852	64	: 3,207,322
38	: 3,196,107		3,187,906		3,170,872	525	: 3,204,773		3,164,255		3,181,703		3,217,899
39	: 3,210,272		3,193,101		3,178,025	528	: 3,191,775	60	: 3,164,256		3,181,704	66	: 3,191,780
42	: 3,197,402		3,221,880		3,182,803	531	: 3,200,956		3,165,205		3,182,811	68	: 3,193,108
	3,198,731	134	: 3,217,885		3,212,641	532	: 3,212,644		3,166,196		3,202,294		3,216,586
44	: 3,192,155	136	: 3,166,499		3,217,888		3,221,889		3,175,694		3,202,294	69	: 3,197,033
46	: 3,172,845		3,178,022		3,219,191	533	: 3,198,337		3,178,031		3,202,295	70	: 3,190,455
48	: 3,218,254		3,184,064	278	: 3,190,452				3,178,032		3,203,558	71	: 3,221,899
49	: 3,170,868		3,185,303	280	: 3,216,575				3,179,255		3,204,778	89	: 3,172,544
50	: 3,167,506		3,203,549	282	: 3,204,770				3,185,310		3,207,321	104	: 3,173,555
52	: 3,171,800		3,221,881		3,208,595				3,187,901	144	: Re.25,91		3,215,280
	3,171,801	137	: 3,166,500		3,220,555	1	: 3,184,066		3,187,902	131	: 3,164,259		3,170,577
	3,171,802		3,193,102		3,224,586	.5	: 3,200,957		3,189,186		3,178,034		3,171,544
	3,171,803		3,207,311		3,225,932	4	: 3,207,316		3,212,645	132	: 3,181,705	145	: 3,164,262
	3,173,863	138	: 3,214,022	285	: 3,174,623	5	: 3,166,192		3,216,585		3,184,073		3,167,181
	3,183,186	139	: 3,223,242	286	: 3,202,286		3,166,193		3,217,891	134	: 3,195,734		3,175,699
	3,194,757	141	: 3,207,312	291	: 3,189,181		3,200,958	64	: 3,167,182		3,202,296		3,184,077
	3,219,578	143	: 3,178,023	293	: 3,178,026		3,204,774		3,180,494		3,216,586		3,193,111
	3,226,319		3,193,103	298	: 3,221,885		3,220,556	65	: 3,203,555		3,221,894		3,194,414
53	: 3,165,465	144	: 3,172,848		3,221,886		3,223,245	66	: 3,185,311		3,223,246		3,215,281
	3,171,804		3,190,447	306	: 3,202,287	10	: 3,178,029		3,209,918	135	: 3,184,074		3,215,282
	3,203,894	149	: 3,175,688	307	: 3,165,470		3,184,067		3,182,800	148	: Re.25,92		
54	: 3,166,497		3,176,845		3,207,313		3,221,890	69	: 3,167,183		3,179,257		
	3,170,869		3,215,274		3,208,596	13	: 3,168,197		3,171,544		3,182,812	1	: 3,209,920
	3,171,805	151	: 3,172,849	315	: 3,179,253		3,173,545		3,173,547		3,184,075		3,224,595
	3,174,928	154	: 3,209,913	319	: 3,171,807		3,185,305		3,186,555		3,194,407	8	: 3,164,263
	3,194,758	159	: 3,209,914	321	: 3,171,808		3,186,553		3,189,187		3,195,735		3,166,202
	3,200,068	162	: 3,190,448		3,173,867		3,189,183		3,190,453		3,200,961		3,166,203
	3,214,370		3,193,104		3,198,335		3,195,731		3,199,683		3,207,322		3,168,204
57	: 3,173,864	168	: 3,168,468		3,199,680		3,202,288		3,214,030		3,221,895		3,178,038
	3,215,626	169	: 3,169,920		3,212,642		3,207,317		3,214,031		3,225,937		3,186,556
58	: 3,184,407		3,173,865	327	: 3,221,887		3,214,027		3,217,892		3,223,247		3,193,112
	3,188,289		3,186,550		3,224,588		3,221,891	72	: 3,211,294	150	: 3,167,186		3,207,323
59	: 3,170,870		3,195,726	328	: 3,216,576		3,182,804	74	: 3,164,257		3,168,199		3,216,587
	3,208,935		3,199,678	330	: 3,195,729	14	: 3,182,806		3,169,641	151	: 3,179,258		3,219,199
60	: 3,214,371		3,217,886		3,224,587		3,198,338		3,175,695	153	: 3,167,187		3,221,899
62	: 3,215,627	170	: 3,169,921	331	: 3,187,898	22	: 3,202,289		3,181,701		3,185,314	21	: 3,180,499
	3,222,276	172	: 3,165,468	</									

Class 213—Con.		1 : 3,202,301	8.5 : 3,195,741	18.38 : 3,190,470	84 : 3,204,790	147 : 3,221,908	506 : 3,185,330
43 : 3,176,855	3,202,302	5 : 3,200,969	21 : 3,180,501	21 : 3,180,501	3,225,945	3,221,909	3,199,695
3,176,856	3,204,782	5 : 3,204,784	23 : 3,169,647	23 : 3,169,647	3,193,120	3,166,206	3,214,047
3,186,563	3,204,783	5 : 3,206,041	3,170,577	3,170,577	3,204,791	3,169,652	3,215,296
3,190,458	3,206,040	5 : 3,206,042	3,193,119	3,193,119	3,178,044	3,176,864	3,219,217
3,193,112	3,207,325	5 : 3,208,605	3,207,334	3,207,334	3,216,596	3,185,327	3,200,976
3,194,415	3,207,326	5 : 3,209,924	3,197,047	3,197,047	3,182,828	3,186,568	3,208,616
3,198,346	3,208,600	5 : 3,215,289	3,199,691	3,199,691	3,182,829	3,190,477	3,186,567
3,215,283	3,208,601	5 : 3,223,254	3,165,212	3,165,212	3,200,972	3,193,122	3,164,274
3,216,591	3,208,602	10 : 3,224,604	30 : 3,211,304	30 : 3,211,304	3,178,045	3,206,050	3,168,206
3,217,897	3,209,922	5 : 3,225,943	31 : 3,220,574	31 : 3,220,574	3,193,121	3,209,931	3,175,716
3,217,898	3,209,923	5 : 3,199,689	34 : 3,217,908	34 : 3,217,908	3,207,337	3,219,216	3,199,696
3,224,599	3,211,299	5 : 3,208,606	35 : 3,206,047	35 : 3,206,047	3,206,048	3,220,583	3,217,911
3,224,599	3,212,649	11 : 3,164,271	3,219,209	3,219,209	3,173,559	300 : 3,179,268	3,220,585
3,224,599	3,212,650	3,181,713	36 : 3,180,502	36 : 3,180,502	3,171,552	3,206,051	3,182,836
3,224,599	3,212,651	3,198,351	3,221,906	3,221,906	3,184,083	3,211,311	3,197,053
3,224,599	3,212,652	3,198,352	3,186,566	3,186,566	3,199,692	3,217,912	3,221,912
3,224,599	3,212,653	3,216,594	3,189,199	3,189,199	3,173,560	3,164,275	3,175,717
3,224,599	3,212,654	3,217,903	3,191,784	3,191,784	3,206,049	302 : 3,167,195	3,175,718
3,224,599	3,212,655	3,217,899	3,194,419	3,194,419	3,212,658	3,170,580	3,175,719
3,224,599	3,212,656	3,217,900	3,202,304	3,202,304	3,164,273	3,174,636	3,180,511
3,224,599	3,212,657	3,217,901	3,208,608	3,208,608	3,207,338	3,195,748	3,180,512
3,224,599	3,212,658	3,217,902	3,209,926	3,209,926	3,208,609	3,202,305	3,180,513
3,224,599	3,212,659	3,217,903	3,212,654	3,212,654	3,190,475	3,207,343	3,180,514
3,224,599	3,212,660	3,217,904	3,214,036	3,214,036	3,212,659	3,207,344	3,180,515
3,224,599	3,212,661	3,217,905	3,217,909	3,217,909	3,223,261	3,207,345	3,180,516
3,224,599	3,212,662	3,217,906	3,220,575	3,220,575	3,184,084	3,211,312	3,180,517
3,224,599	3,212,663	3,217,907	3,223,258	3,223,258	3,176,862	3,217,913	3,180,518
3,224,599	3,212,664	3,217,908	3,223,259	3,223,259	3,207,339	3,225,947	3,180,519
3,224,599	3,212,665	3,217,909	3,223,260	3,223,260	3,219,212	303 : 3,175,712	3,180,520
3,224,599	3,212,666	3,217,910	3,223,261	3,223,261	3,219,213	3,214,048	3,180,521
3,224,599	3,212,667	3,217,911	3,223,262	3,223,262	3,219,214	3,214,049	3,180,522
3,224,599	3,212,668	3,217,912	3,223,263	3,223,263	3,219,215	3,214,050	3,180,523
3,224,599	3,212,669	3,217,913	3,223,264	3,223,264	3,219,216	3,214,051	3,180,524
3,224,599	3,212,670	3,217,914	3,223,265	3,223,265	3,219,217	3,214,052	3,180,525
3,224,599	3,212,671	3,217,915	3,223,266	3,223,266	3,219,218	3,214,053	3,180,526
3,224,599	3,212,672	3,217,916	3,223,267	3,223,267	3,219,219	3,214,054	3,180,527
3,224,599	3,212,673	3,217,917	3,223,268	3,223,268	3,219,220	3,214,055	3,180,528
3,224,599	3,212,674	3,217,918	3,223,269	3,223,269	3,219,221	3,214,056	3,180,529
3,224,599	3,212,675	3,217,919	3,223,270	3,223,270	3,219,222	3,214,057	3,180,530
3,224,599	3,212,676	3,217,920	3,223,271	3,223,271	3,219,223	3,214,058	3,180,531
3,224,599	3,212,677	3,217,921	3,223,272	3,223,272	3,219,224	3,214,059	3,180,532
3,224,599	3,212,678	3,217,922	3,223,273	3,223,273	3,219,225	3,214,060	3,180,533
3,224,599	3,212,679	3,217,923	3,223,274	3,223,274	3,219,226	3,214,061	3,180,534
3,224,599	3,212,680	3,217,924	3,223,275	3,223,275	3,219,227	3,214,062	3,180,535
3,224,599	3,212,681	3,217,925	3,223,276	3,223,276	3,219,228	3,214,063	3,180,536
3,224,599	3,212,682	3,217,926	3,223,277	3,223,277	3,219,229	3,214,064	3,180,537
3,224,599	3,212,683	3,217,927	3,223,278	3,223,278	3,219,230	3,214,065	3,180,538
3,224,599	3,212,684	3,217,928	3,223,279	3,223,279	3,219,231	3,214,066	3,180,539
3,224,599	3,212,685	3,217,929	3,223,280	3,223,280	3,219,232	3,214,067	3,180,540
3,224,599	3,212,686	3,217,930	3,223,281	3,223,281	3,219,233	3,214,068	3,180,541
3,224,599	3,212,687	3,217,931	3,223,282	3,223,282	3,219,234	3,214,069	3,180,542
3,224,599	3,212,688	3,217,932	3,223,283	3,223,283	3,219,235	3,214,070	3,180,543
3,224,599	3,212,689	3,217,933	3,223,284	3,223,284	3,219,236	3,214,071	3,180,544
3,224,599	3,212,690	3,217,934	3,223,285	3,223,285	3,219,237	3,214,072	3,180,545
3,224,599	3,212,691	3,217,935	3,223,286	3,223,286	3,219,238	3,214,073	3,180,546
3,224,599	3,212,692	3,217,936	3,223,287	3,223,287	3,219,239	3,214,074	3,180,547
3,224,599	3,212,693	3,217,937	3,223,288	3,223,288	3,219,240	3,214,075	3,180,548
3,224,599	3,212,694	3,217,938	3,223,289	3,223,289	3,219,241	3,214,076	3,180,549
3,224,599	3,212,695	3,217,939	3,223,290	3,223,290	3,219,242	3,214,077	3,180,550
3,224,599	3,212,696	3,217,940	3,223,291	3,223,291	3,219,243	3,214,078	3,180,551
3,224,599	3,212,697	3,217,941	3,223,292	3,223,292	3,219,244	3,214,079	3,180,552
3,224,599	3,212,698	3,217,942	3,223,293	3,223,293	3,219,245	3,214,080	3,180,553
3,224,599	3,212,699	3,217,943	3,223,294	3,223,294	3,219,246	3,214,081	3,180,554
3,224,599	3,212,700	3,217,944	3,223,295	3,223,295	3,219,247	3,214,082	3,180,555
3,224,599	3,212,701	3,217,945	3,223,296	3,223,296	3,219,248	3,214,083	3,180,556
3,224,599	3,212,702	3,217,946	3,223,297	3,223,297	3,219,249	3,214,084	3,180,557
3,224,599	3,212,703	3,217,947	3,223,298	3,223,298	3,219,250	3,214,085	3,180,558
3,224,599	3,212,704	3,217,948	3,223,299	3,223,299	3,219,251	3,214,086	3,180,559
3,224,599	3,212,705	3,217,949	3,223,300	3,223,300	3,219,252	3,214,087	3,180,560
3,224,599	3,212,706	3,217,950	3,223,301	3,223,301	3,219,253	3,214,088	3,180,561
3,224,599	3,212,707	3,217,951	3,223,302	3,223,302	3,219,254	3,214,089	3,180,562
3,224,599	3,212,708	3,217,952	3,223,303	3,223,303	3,219,255	3,214,090	3,180,563
3,224,599	3,212,709	3,217,953	3,223,304	3,223,304	3,219,256	3,214,091	3,180,564
3,224,599	3,212,710	3,217,954	3,223,305	3,223,305	3,219,257	3,214,092	3,180,565
3,224,599	3,212,711	3,217,955	3,223,306	3,223,306	3,219,258	3,214,093	3,180,566
3,224,599	3,212,712	3,217,956	3,223,307	3,223,307	3,219,259	3,214,094	3,180,567
3,224,599	3,212,713	3,217,957	3,223,308	3,223,308	3,219,260	3,214,095	3,180,568
3,224,599	3,212,714	3,217,958	3,223,309	3,223,309	3,219,261	3,214,096	3,180,569
3,224,599	3,212,715	3,217,959	3,223,310	3,223,310	3,219,262	3,214,097	3,180,570
3,224,599	3,212,716	3,217,960	3,223,311	3,223,311	3,219,263	3,214,098	3,180,571
3,224,599	3,212,717	3,217,961	3,223,312	3,223,312	3,219,264	3,214,099	3,180,572
3,224,599	3,212,718	3,217,962	3,223,313	3,223,313	3,219,265	3,214,100	3,180,573
3,224,599	3,212,719	3,217,963	3,223,314	3,223,314	3,219,266	3,214,101	3,180,574
3,224,599	3,212,720	3,217,964	3,223,315	3,223,315	3,219,267	3,214,102	3,180,575
3,224,599	3,212,721	3,217,965	3,223,316	3,223,316	3,219,268	3,214,103	3,180,576
3,224,599	3,212,722	3,217,966	3,223,317	3,223,317	3,219,269	3,214,104	3,180,577
3,224,599	3,212,723	3,217,967	3,223,318	3,223,318	3,219,270	3,214,105	3,180,578
3,224,599	3,212,724	3,217,968	3,223,319	3,223,319	3,219,271	3,214,106	3,180,579
3,224,599	3,212,725	3,217,969	3,223,320	3,223,320	3,219,272	3,214,107	3,180,580
3,224,599	3,212,726	3,217,970	3,223,321	3,223,321	3,219,273	3,214,108	3,180,581
3,224,599	3,212,727	3,217,971	3,223,322	3,223,322	3,219,274	3,214,109	3,180,582
3,224,599	3,212,728	3,217,972	3,223,323	3,223,323	3,219,275	3,214,110	3,180,583
3,224,599	3,212,729	3,217,973	3,223,324	3,223,324	3,219,276	3,214,111	3,180,584
3,224,599	3,212,730	3,217,974	3,223,325	3,223,325	3,219,277	3,214,112	3,180,585
3,224,599	3,212,731	3,217,975	3,223,326	3,223,326	3,219,278	3,214,113	3,180,586
3,224,599	3,212,732	3,217,976	3,223,327	3,223,327	3,219,279	3,214,114	3,180,587
3,224,599	3,212,733	3,217,977	3,223,328	3,223,328	3,219,280	3,214,115	3,180,588
3,224,599	3,212,734	3,217,978	3,223,329	3,223,329	3,219,281	3,214,116	3,180,589
3,224,599	3,212,735	3,217,979	3,223,330	3,223,330	3,219,282	3,214,117	3,180,590
3,224,599	3,212,736	3,217,980	3,223,331	3,223,331	3,219,283	3,214,118	3,180,591
3,224,599	3,212,737	3,217,981	3,223,332	3,223,332	3,219,284	3,214,119	3,180,592
3,224,599	3,212,738	3,217,982	3,223,333	3,223,333	3,219,285	3,214,120</	

CLASSIFICATION OF PATENTS

64	: 3.184,109	95	: 3.211,340	146	: 3.199,740	183	: 3.219,240	256	: 3.180,533	394	: 3.185,356	490	: 3.191,820
	3.189,225		3.212,678		3.204,828		3.221,943		3.187,959		3.186,605	494	: 3.203,603
	3.190,497		3.216,621		3.215,315		3.225,967		3.209,955		3.187,962	495	: 3.165,242
	3.216,617		3.217,932		3.216,623		3.200,998	263	: 3.173,584		3.187,963	496	: 3.178,082
	3.224,638		3.220,611		3.217,937	184	: 3.172,575		3.176,884		3.189,232	498	: 3.164,606
66	: 3.194,439	96	: 3.217,933		3.217,938	185	: 3.173,582		3.211,346		3.190,508	503	: 3.165,243
67	: 3.179,294		3.221,940	148	: 3.194,441		3.187,956	267	: 3.175,737		3.191,815		3.214,069
	3.185,347		3.168,220		3.195,781		3.200,999		3.178,073		3.191,816	499	: 3.216,630
	3.193,144	98	: 3.199,737	149	: 3.187,953	187	: 3.176,882		3.179,304		3.191,817	500	: 3.180,538
	3.207,372	100	: 3.204,824		3.197,077		3.211,345	272	: 3.201,005		3.194,449	501	: 3.201,012
	3.212,674		3.214,064	153	: 3.164,300	189	: 3.184,118	288	: 3.179,305		3.194,450	502	: 3.170,608
68	: 3.224,639		3.219,238		3.169,672		3.186,603	309	: 3.169,674		3.195,786	503	: 3.181,740
70	: 3.165,238	102	: 3.187,951		3.170,601		3.187,957		3.175,738		3.195,787	504	: 3.216,631
	3.166,219		3.197,072		3.172,573		3.209,954		3.176,885		3.198,404	505	: 3.170,609
	3.169,669		3.221,941		3.185,349		3.212,682		3.221,946		3.206,081	512	: 3.167,222
	3.179,296	103	: 3.172,569		3.187,954		3.217,941	311	: 3.193,157		3.206,082	514	: 3.180,538
	3.180,527		3.205,956		3.204,829		3.217,942	314	: 3.190,506		3.207,386	515	: 3.225,972
	3.182,857		3.211,341		3.225,966		3.217,943	318	: 3.194,446		3.209,960	516	: 3.225,972
	3.187,948	105	: 3.172,570	156	: 3.181,738		3.224,642		3.207,383		3.211,349	517	: 3.181,741
	3.187,949		3.173,579		3.184,115	190	: 3.164,303		3.207,384		3.216,628		3.193,161
	3.195,777		3.178,063	158	: 3.168,223		3.221,944		3.209,956		3.221,950	518	: 3.199,748
	3.198,387		3.178,064		3.176,880		3.224,647	319	: 3.208,645		3.223,293	519	: 3.197,090
	3.199,732		3.180,528		3.181,739	191	: 3.186,604	321	: 3.179,306		3.225,969	520	: 3.168,969
	3.199,733		3.190,500		3.195,782	192	: 3.164,304		3.180,534		3.199,746	521	: 3.199,749
	3.203,594		3.198,390	161	: 3.178,068		3.172,576		3.184,123	396	: 3.217,947	521	: 3.175,741
	3.207,373		3.198,391		3.186,602		3.191,811		3.185,354	399	: 3.195,788		3.194,453
	3.209,950		3.204,825	162	: 3.208,642	193	: 3.175,735		3.187,960		3.211,350	522	: 3.197,091
	3.211,338		3.206,075		3.224,644		3.176,883		3.194,447	400.7	: 3.170,607	522	: 3.197,091
	3.212,675		3.206,076	163	: 3.164,301		3.185,352		3.198,403	.7	: 3.173,586	522	: 3.197,091
	3.214,062		3.212,679	166	: 3.178,069		3.189,230		3.223,292	.7	: 3.194,451	525	: 3.201,013
	3.216,618	107	: 3.166,220		3.193,150		3.190,501		3.223,292	.7	: 3.220,617	527	: 3.221,952
	3.223,285		3.172,571		3.198,395		3.194,443	324	: 3.199,745	.8	: 3.220,617	527	: 3.164,307
71	: 3.212,676		3.173,580		3.211,344		3.194,444	326	: 3.214,657	.8	: 3.207,387	528	: 3.181,742
72	: 3.197,069		3.178,065		3.214,065		3.199,743	327	: 3.211,347	407	: 3.194,452	528	: 3.181,743
	3.200,993		3.186,600		3.220,612		3.201,000		3.220,616	410	: 3.178,079	529	: 3.185,360
74	: 3.216,619		3.186,601	167	: 3.215,316		3.204,831		3.221,947	416	: 3.182,865	529	: 3.199,750
76	: 3.164,299		3.197,073	169	: 3.217,939		3.206,078	328	: 3.182,863		3.220,618	537	: 3.220,620
	3.174,649		3.198,392		3.219,078		3.221,945	330	: 3.193,158		3.220,619	538	: 3.221,953
	3.178,061		3.200,996		3.219,239	194	: 3.201,001	333	: 3.179,307		3.217,948	539	: 3.181,744
	3.190,498		3.211,342	173	: 3.202,322		3.222,288		3.184,124	5	: 3.174,606	541	: 3.185,361
	3.203,595		3.217,934	174	: 3.220,613		3.222,288		3.197,085	425	: 3.185,357	541	: 3.185,361
	3.206,072		3.221,942	175	: 3.223,286		3.202,322	334	: 3.221,948	430	: 3.178,080	541	: 3.185,361
	3.211,339		3.224,640	176	: 3.194,442	196	: 3.203,599	335	: 3.180,535	434	: 3.223,294	541	: 3.179,313
	3.221,937	108	: 3.193,148		3.198,396		3.204,832		3.194,448	438	: 3.223,295	541	: 3.186,606
	3.221,938		3.202,321		3.198,397	.1	: 3.220,614		3.194,448	440	: 3.189,233	541	: 3.186,606
78	: 3.178,060		3.208,641		3.198,398	.2	: 3.184,119	336	: 3.173,585	440	: 3.189,233	541	: 3.186,606
	3.217,928	109	: 3.168,221		3.208,643		3.198,401		3.193,159	442	: 3.193,160	541	: 3.186,606
	3.219,237		3.172,572	177	: 3.172,574	197	: 3.164,305	340	: 3.209,957	442	: 3.223,296	541	: 3.186,606
	3.220,609		3.193,149		3.176,881	199	: 3.173,583		3.209,958		3.223,296	541	: 3.186,606
79	: 3.187,950		3.198,393		3.179,297		3.193,153	341	: 3.185,355	443	: 3.201,009	542	: 3.189,234
	3.197,070		3.217,935		3.179,298		3.194,445		3.214,657	443	: 3.209,961	543	: 3.195,790
	3.225,964	129	: Re.25.814		3.180,530		3.216,626	342	: 3.175,739	447	: 3.208,647	543	: 3.199,751
80	: 3.172,568		3.187,952		3.197,079		3.224,649	345	: 3.201,007	450	: 3.208,647	543	: 3.199,751
	3.181,732		3.189,228		3.197,079	201	: 3.212,683	346	: 3.187,961	457	: 3.190,509	543	: 3.208,650
	3.195,778		3.197,066		3.202,323	205	: 3.190,503	350	: 3.217,944	457	: 3.209,963	543	: 3.209,963
	3.206,073	.1	: 3.168,962		3.207,379		3.201,002	355	: 3.204,833	453	: 3.197,088	545	: 3.174,661
	3.207,374	.1	: 3.209,952	179	: 3.197,061		3.172,577	356	: 3.191,813	453	: 3.199,747	545	: 3.180,540
81	: 3.207,375	.1	: 3.215,312		3.203,597	206	: 3.172,577	360	: 3.169,615	455	: 3.195,789	545	: 3.180,540
	3.212,677	.1	: 3.224,641	180	: 3.178,070		3.201,003	361	: 3.167,218	456	: 3.202,327	545	: 3.181,746
82	: 3.168,219	.1	: 3.225,965		3.193,151	207	: 3.175,736		3.201,008	456	: 3.172,580	545	: 3.194,454
	3.186,599	.2	: 3.199,738	181	: 3.164,302		3.178,072		3.217,945		3.178,081	545	: 3.194,455
	3.189,226	.3	: 3.207,376		3.168,224		3.179,279		3.224,651	457	: 3.221,951	545	: 3.197,092
	3.191,808	130	: 3.197,067		3.174,653		3.190,505	362	: 3.221,949	457	: 3.165,240	547	: 3.198,406
	3.193,145		3.199,739		3.175,734		3.193,154	365	: 3.197,086	457	: 3.191,818	547	: 3.201,014
	3.193,146		3.207,377		3.202,324		3.197,082	367	: 3.209,959	459	: 3.216,629	547	: 3.204,836
	3.195,779	131	: 3.180,529		3.202,325		3.224,650	368	: 3.179,308	460	: 3.206,083	547	: 3.209,964
	3.200,994		3.197,074		3.204,830	209	: 3.184,120		3.204,834	462	: 3.224,653	547	: 3.186,607
	3.208,639		3.215,313	182	: 3.165,239		3.214,066	373	: 3.169,676	464	: 3.172,581	548	: 3.206,085
	3.209,951	132	: 3.174,651		3.167,217		3.223,289	380	: 3.168,225		3.182,866	549	: 3.164,308
	3.214,063		3.174,652		3.169,673	212	: 3.168,968	383	: 3.190,507		3.201,010	553	: 3.207,390
83	: 3.181,733	133	: 3.182,859		3.170,602		3.182,861		3.206,080		3.208,648	554	: 3.186,608
	3.182,858		3.184,111		3.170,603	213	: 3.179,300	384	: 3.191,814	465	: 3.191,819	561	: 3.179,314
	3.216,620	134	: 3.175,732		3.178,071		3.179,301	386	: 3.178,074	467	: 3.171,574	566	: 3.221,954
.5	: 3.174,650		3.176,878		3.180,531		3.184,121		3.212,685	472	: 3.168,226	569	: Re.25.765
.5	: 3.181,734		3.190,504		3.180,532		3.206,079		3.217,946		3.212,686	570	: 3.201,015
.5	: 3.193,147		3.195,780		3.184,116		3.215,319	.5	: 3.174,658	473	: 3.172,582	572	: 3.225,975
.5	: 3.196,388		3.197,075		3.185,350	214	: 3.174,654	.5	: 3.178,075		3.201,011		
.5	: 3.199,734		3.207,378		3.185,351	215	: 3.174,655	.5	: 3.184,113	475	: 3.185,358		
.5	: 3.217,929		3.224,642		3.191,809	218	: 3.207,381	.5	: 3.197,087	477	: 3.167,220		
86	: 3.184,110	135	: 3.181,736		3.193,152	219	: 3.172,578	.5	: 3.202,326	478	: 3.169,678		
90	: 3.168,966		3.198,394		3.195,783	220	: 3.203,601	.5	: 3.208,646		3.190,510	10	: 3.199,752
	3.220,610		3.206,077		3.195,784	225	: 3.172,579	.5	: 3.211,348		3.190,511	30	: 3.190,512
92	: 3.199,735		3.216,622		3.198,399	227	: 3.187,958	387	: 3.176,886	479	: 3.173,587	34	: 3.204,837
93	: 3.173,578	136	: 3.181,737		3.198,400		3.193,155	389	: 3.170,605		3.173,588	37	: 3.167,223
	3.194,440		3.182,860		3.199,741	228	: 3.201,004		3.179,309		3.173,589		3.181,747
	3.198,389		3.184,112		3.209,953		3.223,290		3.189,231				

Class 223 - Con.									
66 : 3,198,408	7 : 3,191,827	66 : 3,176,892	157 : 3,172,592	5 : 3,191,843	7 : 3,171,580	23 : 3,194,472	40 : 3,223,308	55 : 3,206,105	9 : 3,195,805
67 : 3,165,244	8 : 3,206,087	72 : 3,185,363	164 : 3,190,519	6 : 3,182,880	3,180,552	3,197,108	41 : 3,174,675	56 : 3,207,419	10 : 3,207,422
3,184,127	9 : 3,221,959	80 : 3,168,231	165 : 3,193,163	7 : 3,207,407	3,184,134	3,204,853	3,184,146	3,207,420	11 : 3,219,259
3,202,328	13 : 3,212,689	82 : 3,166,224	170 : 3,225,992	8 : 3,193,170	3,190,531	3,211,356	3,184,176	3,207,420	15 : 3,214,084
68 : 3,164,310	15 : 3,219,244	89 : 3,186,613	172 : 3,182,877	10 : 3,173,594	3,194,470	3,212,696	42 : 3,187,981	21 : 3,174,677	21 : 3,198,421
3,181,748	20 : 3,190,514	91 : 3,169,685	173 : 3,220,627	13 : 3,193,171	3,215,329	3,216,076	3,187,981	22 : 3,204,857	22 : 3,224,662
3,191,821	25 : 3,180,545	93 : 3,172,588	174 : 3,169,687	14 : 3,204,847	3,226,001	3,186,622	43 : 3,194,479	26 : 3,186,630	26 : 3,186,630
3,208,651	3,184,128	99 : 3,221,961	176 : 3,176,895	15 : 3,173,595	3,190,532	3,195,797	3,203,619	27 : 3,203,620	27 : 3,198,421
70 : 3,216,633	3,191,828	100 : 3,172,589	185 : 3,185,366	18 : 3,221,969	3,224,660	3,208,079	3,203,619	28 : 3,203,620	28 : 3,224,662
71 : 3,180,543	3,223,300	101 : 3,215,345	186 : 3,197,105	19 : 3,221,969	3,208,079	3,208,659	44 : 3,173,600	29 : 3,224,663	29 : 3,224,663
72 : 3,189,235	3,225,985	102 : 3,215,345	187 : 3,207,407	20 : 3,215,345	3,208,659	3,179,323	3,173,600	30 : 3,166,236	30 : 3,166,236
3,217,952	26 : 3,201,017	103 : 3,207,398	188 : 3,184,132	25 : 3,220,629	3,181,766	3,182,883	45 : 3,190,537	31 : 3,175,754	31 : 3,175,754
73 : 3,171,575	3,217,952	104 : 3,217,952	189 : 3,176,895	26 : 3,186,618	3,182,883	3,182,883	46 : 3,194,479	32 : 3,204,857	32 : 3,204,857
3,178,084	28 : 3,202,331	105 : 3,217,952	190 : 3,176,895	29 : 3,176,897	3,182,883	3,182,883	47 : 3,194,479	33 : 3,193,183	33 : 3,193,183
3,182,869	29 : 3,165,247	106 : 3,217,952	191 : 3,198,411	30 : 3,207,408	3,182,883	3,182,883	48 : 3,209,981	34 : 3,193,184	34 : 3,193,184
3,207,391	3,181,754	107 : 3,217,952	192 : 3,180,548	31 : 3,190,527	3,182,883	3,182,883	49 : 3,209,981	35 : 3,193,184	35 : 3,193,184
3,208,652	3,181,754	108 : 3,217,952	193 : 3,207,402	32 : 3,190,527	3,182,883	3,182,883	50 : 3,209,981	36 : 3,193,184	36 : 3,193,184
3,220,622	3,209,969	109 : 3,217,952	194 : 3,207,402	33 : 3,190,527	3,182,883	3,182,883	51 : 3,209,981	37 : 3,193,184	37 : 3,193,184
74 : 3,174,663	3,215,323	110 : 3,217,952	195 : 3,207,402	34 : 3,190,527	3,182,883	3,182,883	52 : 3,209,981	38 : 3,193,184	38 : 3,193,184
75 : 3,169,680	3,215,323	111 : 3,217,952	196 : 3,207,402	35 : 3,190,527	3,182,883	3,182,883	53 : 3,209,981	39 : 3,193,184	39 : 3,193,184
76 : 3,181,749	3,215,323	112 : 3,217,952	197 : 3,207,402	36 : 3,190,527	3,182,883	3,182,883	54 : 3,209,981	40 : 3,193,184	40 : 3,193,184
77 : 3,197,094	3,215,323	113 : 3,217,952	198 : 3,207,402	37 : 3,190,527	3,182,883	3,182,883	55 : 3,209,981	41 : 3,193,184	41 : 3,193,184
81 : 3,180,544	3,215,323	114 : 3,217,952	199 : 3,207,402	38 : 3,190,527	3,182,883	3,182,883	56 : 3,209,981	42 : 3,193,184	42 : 3,193,184
82 : 3,191,822	3,215,323	115 : 3,217,952	200 : 3,207,402	39 : 3,190,527	3,182,883	3,182,883	57 : 3,209,981	43 : 3,193,184	43 : 3,193,184
85 : 3,202,329	3,215,323	116 : 3,217,952	201 : 3,207,402	40 : 3,190,527	3,182,883	3,182,883	58 : 3,209,981	44 : 3,193,184	44 : 3,193,184
3,207,392	3,215,323	117 : 3,217,952	202 : 3,207,402	41 : 3,190,527	3,182,883	3,182,883	59 : 3,209,981	45 : 3,193,184	45 : 3,193,184
3,225,977	3,215,323	118 : 3,217,952	203 : 3,207,402	42 : 3,190,527	3,182,883	3,182,883	60 : 3,209,981	46 : 3,193,184	46 : 3,193,184
87 : 3,204,838	3,215,323	119 : 3,217,952	204 : 3,207,402	43 : 3,190,527	3,182,883	3,182,883	61 : 3,209,981	47 : 3,193,184	47 : 3,193,184
3,209,965	3,215,323	120 : 3,217,952	205 : 3,207,402	44 : 3,190,527	3,182,883	3,182,883	62 : 3,209,981	48 : 3,193,184	48 : 3,193,184
88 : Re.25,841	3,215,323	121 : 3,217,952	206 : 3,207,402	45 : 3,190,527	3,182,883	3,182,883	63 : 3,209,981	49 : 3,193,184	49 : 3,193,184
3,171,576	3,215,323	122 : 3,217,952	207 : 3,207,402	46 : 3,190,527	3,182,883	3,182,883	64 : 3,209,981	50 : 3,193,184	50 : 3,193,184
3,186,609	3,215,323	123 : 3,217,952	208 : 3,207,402	47 : 3,190,527	3,182,883	3,182,883	65 : 3,209,981	51 : 3,193,184	51 : 3,193,184
3,194,457	3,215,323	124 : 3,217,952	209 : 3,207,402	48 : 3,190,527	3,182,883	3,182,883	66 : 3,209,981	52 : 3,193,184	52 : 3,193,184
89 : 3,214,071	3,215,323	125 : 3,217,952	210 : 3,207,402	49 : 3,190,527	3,182,883	3,182,883	67 : 3,209,981	53 : 3,193,184	53 : 3,193,184
91 : 3,165,245	3,215,323	126 : 3,217,952	211 : 3,207,402	50 : 3,190,527	3,182,883	3,182,883	68 : 3,209,981	54 : 3,193,184	54 : 3,193,184
3,182,870	3,215,323	127 : 3,217,952	212 : 3,207,402	51 : 3,190,527	3,182,883	3,182,883	69 : 3,209,981	55 : 3,193,184	55 : 3,193,184
3,186,610	3,215,323	128 : 3,217,952	213 : 3,207,402	52 : 3,190,527	3,182,883	3,182,883	70 : 3,209,981	56 : 3,193,184	56 : 3,193,184
3,201,016	3,215,323	129 : 3,217,952	214 : 3,207,402	53 : 3,190,527	3,182,883	3,182,883	71 : 3,209,981	57 : 3,193,184	57 : 3,193,184
3,225,978	3,215,323	130 : 3,217,952	215 : 3,207,402	54 : 3,190,527	3,182,883	3,182,883	72 : 3,209,981	58 : 3,193,184	58 : 3,193,184
92 : 3,168,970	3,215,323	131 : 3,217,952	216 : 3,207,402	55 : 3,190,527	3,182,883	3,182,883	73 : 3,209,981	59 : 3,193,184	59 : 3,193,184
3,194,458	3,215,323	132 : 3,217,952	217 : 3,207,402	56 : 3,190,527	3,182,883	3,182,883	74 : 3,209,981	60 : 3,193,184	60 : 3,193,184
93 : 3,209,966	3,215,323	133 : 3,217,952	218 : 3,207,402	57 : 3,190,527	3,182,883	3,182,883	75 : 3,209,981	61 : 3,193,184	61 : 3,193,184
94 : 3,219,241	3,215,323	134 : 3,217,952	219 : 3,207,402	58 : 3,190,527	3,182,883	3,182,883	76 : 3,209,981	62 : 3,193,184	62 : 3,193,184
3,225,978	3,215,323	135 : 3,217,952	220 : 3,207,402	59 : 3,190,527	3,182,883	3,182,883	77 : 3,209,981	63 : 3,193,184	63 : 3,193,184
95 : 3,171,577	3,215,323	136 : 3,217,952	221 : 3,207,402	60 : 3,190,527	3,182,883	3,182,883	78 : 3,209,981	64 : 3,193,184	64 : 3,193,184
96 : 3,191,823	3,215,323	137 : 3,217,952	222 : 3,207,402	61 : 3,190,527	3,182,883	3,182,883	79 : 3,209,981	65 : 3,193,184	65 : 3,193,184
3,197,095	3,215,323	138 : 3,217,952	223 : 3,207,402	62 : 3,190,527	3,182,883	3,182,883	80 : 3,209,981	66 : 3,193,184	66 : 3,193,184
3,168,229	3,215,323	139 : 3,217,952	224 : 3,207,402	63 : 3,190,527	3,182,883	3,182,883	81 : 3,209,981	67 : 3,193,184	67 : 3,193,184
3,169,682	3,215,323	140 : 3,217,952	225 : 3,207,402	64 : 3,190,527	3,182,883	3,182,883	82 : 3,209,981	68 : 3,193,184	68 : 3,193,184
3,207,393	3,215,323	141 : 3,217,952	226 : 3,207,402	65 : 3,190,527	3,182,883	3,182,883	83 : 3,209,981	69 : 3,193,184	69 : 3,193,184
3,209,967	3,215,323	142 : 3,217,952	227 : 3,207,402	66 : 3,190,527	3,182,883	3,182,883	84 : 3,209,981	70 : 3,193,184	70 : 3,193,184
3,172,585	3,215,323	143 : 3,217,952	228 : 3,207,402	67 : 3,190,527	3,182,883	3,182,883	85 : 3,209,981	71 : 3,193,184	71 : 3,193,184
3,170,612	3,215,323	144 : 3,217,952	229 : 3,207,402	68 : 3,190,527	3,182,883	3,182,883	86 : 3,209,981	72 : 3,193,184	72 : 3,193,184
98 : 3,167,681	3,215,323	145 : 3,217,952	230 : 3,207,402	69 : 3,190,527	3,182,883	3,182,883	87 : 3,209,981	73 : 3,193,184	73 : 3,193,184
3,179,315	3,215,323	146 : 3,217,952	231 : 3,207,402	70 : 3,190,527	3,182,883	3,182,883	88 : 3,209,981	74 : 3,193,184	74 : 3,193,184
3,189,236	3,215,323	147 : 3,217,952	232 : 3,207,402	71 : 3,190,527	3,182,883	3,182,883	89 : 3,209,981	75 : 3,193,184	75 : 3,193,184
3,202,330	3,215,323	148 : 3,217,952	233 : 3,207,402	72 : 3,190,527	3,182,883	3,182,883	90 : 3,209,981	76 : 3,193,184	76 : 3,193,184
3,212,687	3,215,323	149 : 3,217,952	234 : 3,207,402	73 : 3,190,527	3,182,883	3,182,883	91 : 3,209,981	77 : 3,193,184	77 : 3,193,184
3,225,980	3,215,323	150 : 3,217,952	235 : 3,207,402	74 : 3,190,527	3,182,883	3,182,883	92 : 3,209,981	78 : 3,193,184	78 : 3,193,184
3,197,101	3,215,323	151 : 3,217,952	236 : 3,207,402	75 : 3,190,527	3,182,883	3,182,883	93 : 3,209,981	79 : 3,193,184	79 : 3,193,184
101 : 3,191,823	3,215,323	152 : 3,217,952	237 : 3,207,402	76 : 3,190,527	3,182,883	3,182,883	94 : 3,209,981	80 : 3,193,184	80 : 3,193,184
102 : 3,168,228	3,215,323	153 : 3,217,952	238 : 3,207,402	77 : 3,190,527	3,182,883	3,182,883	95 : 3,209,981	81 : 3,193,184	81 : 3,193,184
3,203,606	3,215,323	154 : 3,217,952	239 : 3,207,402	78 : 3,190,527	3,182,883	3,182,883	96 : 3,209,981	82 : 3,193,184	82 : 3,193,184
3,207,397	3,215,323	155 : 3,217,952	240 : 3,207,402	79 : 3,190,527	3,182,883	3,182,883	97 : 3,209,981	83 : 3,193,184	83 : 3,193,184
104 : 3,206,086	3,215,323	156 : 3,217,952	241 : 3,207,402	80 : 3,190,527	3,182,883	3,182,883	98 : 3,209,981	84 : 3,193,184	84 : 3,193,184
3,220,625	3,215,323	157 : 3,217,952	242 : 3,207,402	81 : 3,190,527	3,182,883	3,182,883	99 : 3,209,981	85 : 3,193,184	85 : 3,193,184
3,225,987	3,215,323	158 : 3,217,952	243 : 3,207,402	82 : 3,190,527	3,182,883	3,182,883	100 : 3,209,981	86 : 3,193,184	86 : 3,193,184
105 : 3,174,666	3,215,323	159 : 3,217,952	244 : 3,207,402	83 : 3,190,527	3,182,883	3,182,883	101 : 3,209,981	87 : 3,193,184	87 : 3,193,184
106 : 3,221,959	3,215,323	160 : 3,217,952	245 : 3,207,402	84 : 3,190,527	3,182,883	3,182,883	102 : 3,209,981	88 : 3,193,184	88 : 3,193,184
107 : 3,197,096	3,215,323	161 : 3,217,952	246 : 3,207,402	85 : 3,190,527	3,182,883	3,182,883	103 : 3,209,981	89 : 3,193,184	89 : 3,193,184

Class 235—Con.									
61.11: 3,226,529	101 : 3,180,574	155 : 3,210,528	194 : 3,193,672	34 : 3,182,911	292 : 3,220,651	206 : RE.25,942	453 : 3,171,601	6.46: 3,184,587	41.3 : 3,204,093
11: 3,226,530	103.5 : 3,197,137	156 : 3,167,645	157 : 3,166,668	314 : 3,210,006	314 : 3,210,006	211 : 3,168,963	3,201,050	46: 3,185,832	3 : 3,221,163
12: 3,171,021	5 : 3,212,707	158 : 3,191,011	159 : 3,187,167	327 : 3,187,116	327 : 3,187,116	212 : 3,179,340	3,220,683	7.1 : 3,177,355	3 : 3,226,539
12: 3,189,732	108 : 3,223,320	159 : 3,187,167	160 : 3,169,185	330 : 3,173,611	330 : 3,173,611	215 : 3,188,007	3,223,333	1 : 3,193,673	35: 3,184,591
12: 3,193,665	113 : 3,195,814	161 : 3,221,156	162 : 3,182,180	349 : 3,164,323	349 : 3,164,323	216 : 3,181,796	3,224,684	1 : 3,196,265	35: 3,184,592
12: 3,206,592	114 : 3,212,708	163 : 3,204,869	164 : RE.25,724	35 : 3,172,602	35 : 3,172,602	217 : 3,171,602	3,225,332	1 : 3,207,891	35: 3,185,834
12: 3,218,442	117 : 3,189,273	165 : 3,182,181	166 : 3,182,181	38 : 3,185,393	38 : 3,185,393	218 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,191,024
12: 3,221,148	125 : 3,164,322	167 : 3,182,181	168 : 3,182,181	40 : 3,186,641	40 : 3,186,641	219 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
5 : 3,185,817	128 : 3,207,432	169 : 3,182,181	170 : 3,182,181	43 : 3,191,862	43 : 3,191,862	220 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
5 : 3,218,438	130 : 3,168,241	171 : 3,182,181	172 : 3,182,181	44 : 3,173,610	44 : 3,173,610	221 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
6 : 3,171,951	132 : 3,182,908	173 : 3,182,181	174 : 3,182,181	45 : 3,206,119	45 : 3,206,119	222 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
6 : 3,194,946	133 : 3,190,552	175 : 3,182,181	176 : 3,182,181	46 : 3,206,670	46 : 3,206,670	223 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
6 : 3,197,618	134 : 3,210,000	177 : 3,182,181	178 : 3,182,181	47 : 3,212,710	47 : 3,212,710	224 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
6 : 3,206,591	135 : 3,210,000	179 : 3,182,181	180 : 3,182,181	48 : 3,166,247	48 : 3,166,247	225 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,174,029	136 : 3,210,000	181 : 3,182,181	182 : 3,182,181	56 : 3,190,555	56 : 3,190,555	226 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,191,006	137 : 3,210,000	183 : 3,182,181	184 : 3,182,181	59 : 3,169,704	59 : 3,169,704	227 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,201,569	138 : 3,210,000	185 : 3,182,181	186 : 3,182,181	68 : 3,166,248	68 : 3,166,248	228 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,217,140	139 : 3,210,000	187 : 3,182,181	188 : 3,182,181	74 : 3,167,252	74 : 3,167,252	229 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,218,439	140 : 3,210,000	189 : 3,182,181	190 : 3,182,181	75 : 3,168,242	75 : 3,168,242	230 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,222,451	141 : 3,210,000	191 : 3,182,181	192 : 3,182,181	79 : 3,176,920	79 : 3,176,920	231 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,225,175	142 : 3,210,000	193 : 3,182,181	194 : 3,182,181	80 : 3,167,253	80 : 3,167,253	232 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
7 : 3,225,176	143 : 3,210,000	195 : 3,182,181	196 : 3,182,181	87 : 3,212,711	87 : 3,212,711	233 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
9 : 3,185,818	144 : 3,210,000	197 : 3,182,181	198 : 3,182,181	88 : 3,176,920	88 : 3,176,920	234 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
9 : 3,200,239	145 : 3,210,000	199 : 3,182,181	200 : 3,182,181	89 : 3,212,711	89 : 3,212,711	235 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
9 : 3,204,086	146 : 3,210,000	201 : 3,182,181	202 : 3,182,181	91 : 3,174,687	91 : 3,174,687	236 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
62 : 3,217,984	147 : 3,210,000	203 : 3,182,181	204 : 3,182,181	92 : 3,167,254	92 : 3,167,254	237 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
63 : 3,173,608	148 : 3,210,000	205 : 3,182,181	206 : 3,182,181	93 : 3,176,920	93 : 3,176,920	238 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
64.7 : 3,199,776	149 : 3,210,000	207 : 3,182,181	208 : 3,182,181	94 : 3,176,920	94 : 3,176,920	239 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
70 : 3,188,004	150 : 3,210,000	209 : 3,182,181	210 : 3,182,181	95 : 3,176,920	95 : 3,176,920	240 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,197,135	151 : 3,210,000	211 : 3,182,181	212 : 3,182,181	96 : 3,176,920	96 : 3,176,920	241 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,209,999	152 : 3,210,000	213 : 3,182,181	214 : 3,182,181	97 : 3,176,920	97 : 3,176,920	242 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
78 : 3,181,787	153 : 3,210,000	215 : 3,182,181	216 : 3,182,181	98 : 3,176,920	98 : 3,176,920	243 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,199,777	154 : 3,210,000	217 : 3,182,181	218 : 3,182,181	99 : 3,176,920	99 : 3,176,920	244 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,215,344	155 : 3,210,000	219 : 3,182,181	220 : 3,182,181	100 : 3,165,263	100 : 3,165,263	245 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,220,644	156 : 3,210,000	221 : 3,182,181	222 : 3,182,181	101 : 3,180,576	101 : 3,180,576	246 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
79.5 : 3,202,351	157 : 3,210,000	223 : 3,182,181	224 : 3,182,181	102 : 3,178,113	102 : 3,178,113	247 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
80 : 3,220,645	158 : 3,210,000	225 : 3,182,181	226 : 3,182,181	103 : 3,178,113	103 : 3,178,113	248 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
83 : 3,202,352	159 : 3,210,000	227 : 3,182,181	228 : 3,182,181	104 : 3,178,113	104 : 3,178,113	249 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
84 : 3,206,115	160 : 3,210,000	229 : 3,182,181	230 : 3,182,181	105 : 3,178,113	105 : 3,178,113	250 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,226,020	161 : 3,210,000	231 : 3,182,181	232 : 3,182,181	106 : 3,178,113	106 : 3,178,113	251 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
86 : 3,195,812	162 : 3,210,000	233 : 3,182,181	234 : 3,182,181	107 : 3,178,113	107 : 3,178,113	252 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
87 : 3,199,778	163 : 3,210,000	235 : 3,182,181	236 : 3,182,181	108 : 3,178,113	108 : 3,178,113	253 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
89 : 3,172,599	164 : 3,210,000	237 : 3,182,181	238 : 3,182,181	109 : 3,178,113	109 : 3,178,113	254 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,184,161	165 : 3,210,000	239 : 3,182,181	240 : 3,182,181	110 : 3,178,113	110 : 3,178,113	255 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,212,706	166 : 3,210,000	241 : 3,182,181	242 : 3,182,181	111 : 3,178,113	111 : 3,178,113	256 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
90 : 3,195,813	167 : 3,210,000	243 : 3,182,181	244 : 3,182,181	112 : 3,178,113	112 : 3,178,113	257 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
91 : 3,165,261	168 : 3,210,000	245 : 3,182,181	246 : 3,182,181	113 : 3,178,113	113 : 3,178,113	258 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,178,109	169 : 3,210,000	247 : 3,182,181	248 : 3,182,181	114 : 3,178,113	114 : 3,178,113	259 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,199,779	170 : 3,210,000	249 : 3,182,181	250 : 3,182,181	115 : 3,178,113	115 : 3,178,113	260 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,206,116	171 : 3,210,000	251 : 3,182,181	252 : 3,182,181	116 : 3,178,113	116 : 3,178,113	261 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,216,658	172 : 3,210,000	253 : 3,182,181	254 : 3,182,181	117 : 3,178,113	117 : 3,178,113	262 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,219,270	173 : 3,210,000	255 : 3,182,181	256 : 3,182,181	118 : 3,178,113	118 : 3,178,113	263 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,220,646	174 : 3,210,000	257 : 3,182,181	258 : 3,182,181	119 : 3,178,113	119 : 3,178,113	264 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
92 : 3,168,644	175 : 3,210,000	259 : 3,182,181	260 : 3,182,181	120 : 3,178,113	120 : 3,178,113	265 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,171,952	176 : 3,210,000	261 : 3,182,181	262 : 3,182,181	121 : 3,178,113	121 : 3,178,113	266 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,171,953	177 : 3,210,000	263 : 3,182,181	264 : 3,182,181	122 : 3,178,113	122 : 3,178,113	267 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,178,562	178 : 3,210,000	265 : 3,182,181	266 : 3,182,181	123 : 3,178,113	123 : 3,178,113	268 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,179,790	179 : 3,210,000	267 : 3,182,181	268 : 3,182,181	124 : 3,178,113	124 : 3,178,113	269 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,180,975	180 : 3,210,000	269 : 3,182,181	270 : 3,182,181	125 : 3,178,113	125 : 3,178,113	270 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,184,583	181 : 3,210,000	271 : 3,182,181	272 : 3,182,181	126 : 3,178,113	126 : 3,178,113	271 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,185,819	182 : 3,210,000	273 : 3,182,181	274 : 3,182,181	127 : 3,178,113	127 : 3,178,113	272 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,188,451	183 : 3,210,000	275 : 3,182,181	276 : 3,182,181	128 : 3,178,113	128 : 3,178,113	273 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,189,733	184 : 3,210,000	277 : 3,182,181	278 : 3,182,181	129 : 3,178,113	129 : 3,178,113	274 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,196,257	185 : 3,210,000	279 : 3,182,181	280 : 3,182,181	130 : 3,178,113	130 : 3,178,113	275 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,197,620	186 : 3,210,000	281 : 3,182,181	282 : 3,182,181	131 : 3,178,113	131 : 3,178,113	276 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829
3,200,241	187 : 3,210,000	283 : 3,182,181	284 : 3,182,181	132 : 3,178,113	132 : 3,178,113	277 : 3,171,600	3,226,040	1 : 3,219,809	35: 3,215,829

Class 250 - Con.	83.3 : 3,200,252	106 : 3,217,165	211 : 3,210,548	231 : 3,187,186	129 : 3,174,716	309 : 3,199,835
68 : 3,182,197	3 : 3,201,590	3 : 3,222,524	3 : 3,222,530	232 : 3,173,019	3 : 3,204,923	3 : 3,206,163
3 : 3,191,031	3 : 3,201,591	3 : 3,222,525	3 : 3,222,531	3 : 3,193,690	3 : 3,165,291	3 : 3,206,164
3 : 3,191,032	3 : 3,202,822	3 : 3,225,203	3 : 3,225,203	233 : 3,175,092	3 : 3,185,434	3 : 3,211,420
70 : Re.25,773	3 : 3,204,098	3 : 3,175,087	3 : 3,169,192	3 : 3,187,187	3 : 3,190,609	3 : 3,226,080
71 : Re.25,821	3 : 3,204,100	3 : 3,175,087	3 : 3,173,014	234 : 3,210,550	3 : 3,178,151	3 : 3,167,300
3 : 3,169,186	3 : 3,204,101	3 : 3,175,087	3 : 3,178,580	3 : 3,215,849	3 : 3,173,646	3 : 3,193,248
3 : 3,176,132	3 : 3,204,102	3 : 3,166,672	3 : 3,182,199	3 : 3,223,846	3 : 3,210,041	3 : 3,211,421
3 : 3,180,988	3 : 3,205,356	3 : 3,166,673	3 : 3,176,138	235 : 3,192,393	3 : 3,211,417	3 : 3,214,135
3 : 3,184,596	3 : 3,205,357	3 : 3,170,066	3 : 3,204,106	3 : 3,205,367	3 : 3,166,698	3 : 3,216,698
3 : 3,188,467	3 : 3,205,358	3 : 3,171,031	3 : 3,207,906	3 : 3,206,608	3 : 3,164,360	3 : 3,210,043
3 : 3,207,898	3 : 3,206,603	3 : 3,174,044	3 : 3,207,907	236 : 3,196,277	3 : 3,215,398	3 : 3,194,764
5 : 3,167,652	3 : 3,207,900	3 : 3,175,088	3 : 3,210,549	3 : 3,197,648	3 : 3,165,292	3 : 3,197,409
5 : 3,167,653	3 : 3,207,901	3 : 3,176,138	3 : 3,210,551	3 : 3,226,557	3 : 3,182,952	3 : 3,211,422
5 : 3,167,654	3 : 3,207,902	3 : 3,183,359	3 : 3,215,846	237 : 3,171,034	3 : 3,198,480	3 : 3,168,281
5 : 3,167,654	3 : 3,209,150	3 : 3,189,744	3 : 3,217,168	3 : 3,175,093	3 : 3,191,905	3 : 3,185,437
5 : 3,169,187	3 : 3,209,151	3 : 3,194,965	3 : 3,225,204	3 : 3,177,367	3 : 3,218,025	3 : 3,188,049
5 : 3,174,040	3 : 3,210,545	3 : 3,194,965	3 : 3,199,809	3 : 3,179,809	3 : 3,164,361	3 : 3,193,249
5 : 3,175,083	3 : 3,210,546	3 : 3,204,104	3 : 3,189,745	3 : 3,196,278	3 : 3,170,667	3 : 3,198,483
5 : 3,179,801	3 : 3,211,908	3 : 3,213,281	3 : 3,194,968	3 : 3,196,279	3 : 3,199,831	3 : 3,222,028
5 : 3,183,353	3 : 3,211,909	3 : 3,214,590	3 : 3,209,154	3 : 3,198,953	3 : 3,224,728	3 : 3,224,729
5 : 3,183,354	3 : 3,215,838	3 : 3,215,840	3 : 3,214,594	3 : 3,219,830	3 : 3,180,610	3 : 3,164,363
5 : 3,183,357	3 : 3,219,642	3 : 3,215,841	3 : 3,225,205	3 : 3,225,207	3 : 3,176,955	3 : 3,173,651
5 : 3,184,597	3 : 3,219,820	3 : 3,215,842	3 : 3,215,842	239 : 3,167,658	3 : 3,199,832	3 : 3,175,802
5 : 3,188,468	3 : 3,219,821	3 : 3,167,656	3 : 3,213,285	3 : 3,183,361	3 : 3,170,668	3 : 3,179,372
5 : 3,188,467	3 : 3,219,822	3 : 3,180,993	3 : 3,164,724	3 : 3,185,853	3 : 3,185,435	3 : 3,189,319
5 : 3,198,945	3 : 3,219,823	3 : 3,198,949	3 : 3,164,725	3 : 3,204,109	3 : 3,216,694	3 : 3,197,175
5 : 3,202,819	3 : 3,219,824	3 : 3,198,950	3 : 3,176,139	3 : 3,213,286	3 : 3,170,669	3 : 3,207,471
5 : 3,206,602	3 : 3,219,825	3 : 3,207,904	3 : 3,189,746	3 : 3,214,596	3 : 3,193,244	3 : 3,223,381
5 : 3,207,899	3 : 3,219,826	3 : 3,209,152	3 : 3,193,687	3 : 3,215,850	3 : 3,208,717	3 : 3,172,638
5 : 3,214,587	3 : 3,221,166	3 : 3,213,282	3 : 3,194,969	170 : 3,214,131	3 : 3,193,244	3 : 3,172,639
5 : 3,218,460	3 : 3,222,522	3 : 3,218,461	3 : 3,202,825	172 : 3,166,291	3 : 3,166,291	3 : 3,173,652
5 : 3,222,520	3 : 3,223,840	203 : 3,165,632	217 : 3,166,674	Class 251	3 : 3,170,670	3 : 3,176,956
5 : 3,225,193	3 : 3,223,841	3 : 3,175,089	3 : 3,173,015	1 : 3,215,393	3 : 3,173,647	3 : 3,198,484
5 : 3,225,194	3 : 3,223,842	3 : 3,177,366	3 : 3,188,477	4 : 3,215,394	3 : 3,181,834	3 : 3,204,929
5 : 3,225,195	3 : 3,225,198	3 : 3,177,366	3 : 3,191,046	5 : 3,203,662	3 : 3,184,213	3 : 3,207,472
5 : 3,226,544	3 : 3,225,201	3 : 3,191,038	3 : 3,192,387	6 : 3,197,173	3 : 3,185,436	3 : 3,208,721
77 : 3,200,250	3 : 3,225,202	3 : 3,194,966	3 : 3,196,275	8 : 3,215,395	3 : 3,193,245	3 : 3,168,282
78 : 3,191,033	3 : 3,225,203	3 : 3,205,361	3 : 3,204,107	9 : 3,204,919	3 : 3,201,081	3 : 3,168,283
79 : 3,177,361	3 : 3,225,204	3 : 3,205,362	3 : 3,207,908	11 : 3,169,008	3 : 3,206,162	3 : 3,191,907
80 : 3,164,719	3 : 3,225,205	3 : 3,206,605	3 : 3,215,847	12 : 3,208,715	3 : 3,208,718	3 : 3,164,364
83 : 3,169,188	3 : 3,225,206	3 : 3,211,911	3 : 3,217,169	13 : 3,170,610	3 : 3,214,132	3 : 3,174,718
3 : 3,185,842	3 : 3,225,207	3 : 3,177,363	3 : 3,173,016	14 : 3,169,008	3 : 3,214,133	3 : 3,185,438
3 : 3,187,181	3 : 3,225,208	3 : 3,177,363	3 : 3,177,363	15 : 3,184,216	3 : 3,216,695	3 : 3,164,365
3 : 3,188,469	3 : 3,225,209	3 : 3,180,992	3 : 3,178,577	16 : 3,164,362	3 : 3,216,695	3 : 3,206,165
3 : 3,191,034	3 : 3,225,210	3 : 3,185,845	3 : 3,222,526	17 : 3,178,152	3 : 3,189,318	3 : 3,164,366
3 : 3,194,966	3 : 3,225,211	3 : 3,185,846	3 : 3,222,526	18 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,202,820	3 : 3,225,212	3 : 3,185,847	3 : 3,222,526	19 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,202,821	3 : 3,225,213	3 : 3,185,848	3 : 3,222,526	20 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,205,355	3 : 3,225,214	3 : 3,189,743	3 : 3,222,526	21 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,212,739	3 : 3,225,215	3 : 3,191,036	3 : 3,222,526	22 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,215,837	3 : 3,225,216	3 : 3,196,273	3 : 3,222,526	23 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,216,545	3 : 3,225,217	3 : 3,204,099	3 : 3,222,526	24 : 3,186,683	3 : 3,204,923	3 : 3,186,683
3 : 3,226,546	3 : 3,225,218	3 : 3,205,359	3 : 3,222,526	25 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,188,470	3 : 3,225,219	3 : 3,207,903	3 : 3,222,526	26 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,197,637	3 : 3,225,220	3 : 3,212,165	3 : 3,222,526	27 : 3,186,683	3 : 3,204,923	3 : 3,186,683
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1 : 3,226,547	3 : 3,225,229	3 : 3,222,523	3 : 3,222,526	36 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,226,548	3 : 3,225,230	3 : 3,222,523	3 : 3,222,526	37 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,226,549	3 : 3,225,231	3 : 3,222,523	3 : 3,222,526	38 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,226,550	3 : 3,225,232	3 : 3,222,523	3 : 3,222,526	39 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,226,551	3 : 3,225,233	3 : 3,222,523	3 : 3,222,526	40 : 3,186,683	3 : 3,204,923	3 : 3,186,683
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1 : 3,226,569	3 : 3,225,251	3 : 3,222,523	3 : 3,222,526	58 : 3,186,683	3 : 3,204,923	3 : 3,186,683
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1 : 3,226,574	3 : 3,225,256	3 : 3,222,523	3 : 3,222,526	63 : 3,186,683	3 : 3,204,923	3 : 3,186,683
1 : 3,226,575	3 : 3,225,257	3 : 3,222,523	3 : 3,222,526	64 : 3,186,683	3 : 3,204,923	3 : 3,186,683
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1 : 3,226,577	3 : 3,225,259	3 : 3,222,523	3 : 3,222,526	66 : 3,186,683	3 : 3,204,923	3 : 3,186,683
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3,186,685	3,174,721	147 : 3,214,140	3,214,143	180 : 3,190,620	180 : 3,190,620	5 : 3,194,773
3,188,050	3,190,613	150 : 3,175,805	3,219,318	181 : 3,190,620	181 : 3,190,620	5 : 3,197,423
3,204,931	3,193,252	151 : 3,175,805	3,224,737	182 : 3,198,756	182 : 3,198,756	5 : 3,198,756
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3,218,955	94 : 3,182,958	169 : 3,188,068	3,224,755	200 : 3,198,774	200 : 3,198,774	5 : 3,198,774
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3,221,423	100 : 3,182,960	171 : 3,188,070	3,224,757	202 : 3,198,776	202 : 3,198,776	5 : 3,198,776
3,221,424	103 : 3,182,961	172 : 3,188,071	3,224,758	203 : 3,198,777	203 : 3,198,777	5 : 3,198,777
3,221,425	106 : 3,182,962	173 : 3,188,072	3,224,759	204 : 3,198,778	204 : 3,198,778	5 : 3,198,778
3,221,426	109 : 3,182,963	174 : 3,188,073	3,224,760	205 : 3,198,779	205 : 3,198,779	5 : 3,198,779
3,221,427	112 : 3,182,964	175 : 3,188,074	3,224,761	206 : 3,198,780	206 : 3,198,780	5 : 3,198,780
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3,221,443	160 : 3,182,980	191 : 3,188,090	3,224,777	222 : 3,198,796	222 : 3,198,796	5 : 3,198,796
3,221,444	163 : 3,182,981	192 : 3,188,091	3,224,778	223 : 3,198,797	223 : 3,198,797	5 : 3,198,797
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3,221,454	193 : 3,182,991	202 : 3,188,101	3,224,788	233 : 3,198,807	233 : 3,198,807	5 : 3,198,807
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3,221,465	226 : 3,183,002	213 : 3,188,112	3,224,799	244 : 3,198,818	244 : 3,198,818	5 : 3,198,818
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297 : 3,165,531	303 : 3,165,535	315 : 3,173,931	322 : 3,188,319	335 : 3,188,323	351.1 : 3,173,929	356 : 3,211,755
298 : 3,165,532	304 : 3,165,536	316 : 3,173,932	323 : 3,188,320	336 : 3,188,324	352.1 : 3,173,930	357 : 3,211,756
299 : 3,165,533	305 : 3,165,537	317 : 3,173,933	324 : 3,188,321	337 : 3,188,325	353.1 : 3,173,931	358 : 3,211,757
300 : 3,165,534	306 : 3,165,538	318 : 3,173,934	325 : 3,188,322	338 : 3,188,326	354.1 : 3,173,932	359 : 3,211,758
301 : 3,165,535	307 : 3,165,539	319 : 3,173,935	326 : 3,188,323	339 : 3,188,327	355.1 : 3,173,933	360 : 3,211,759
302 : 3,165,536	308 : 3,165,540	320 : 3,173,936	327 : 3,188,324	340 : 3,188,328	356.1 : 3,173,934	361 : 3,211,760
303 : 3,165,537	309 : 3,165,541	321 : 3,173,937	328 : 3,188,325	341 : 3,188,329	357.1 : 3,173,935	362 : 3,211,761
304 : 3,165,538	310 : 3,165,542	322 : 3,173,938	329 : 3,188,326	342 : 3,188,330	358.1 : 3,173,936	363 : 3,211,762
305 : 3,165,539	311 : 3,165,543	323 : 3,173,939	330 : 3,188,327	343 : 3,188,331	359.1 : 3,173,937	364 : 3,211,763
306 : 3,165,540	312 : 3,165,544	324 : 3,173,940	331 : 3,188,328	344 : 3,188,332	360.1 : 3,173,938	365 : 3,211,764
307 : 3,165,541	313 : 3,165,545	325 : 3,173,941	332 : 3,188,329	345 : 3,188,333	361.1 : 3,173,939	366 : 3,211,765
308 : 3,165,542	314 : 3,165,546	326 : 3,173,942	333 : 3,188,330	346 : 3,188,334	362.1 : 3,173,940	367 : 3,211,766
309 : 3,165,543	315 : 3,165,547	327 : 3,173,943	334 : 3,188,331	347 : 3,188,335	363.1 : 3,173,941	368 : 3,211,767
310 : 3,165,544	316 : 3,165,548	328 : 3,173,944	335 : 3,188,332	348 : 3,188,336	364.1 : 3,173,942	369 : 3,211,768
311 : 3,165,545	317 : 3,165,549	329 : 3,173,945	336 : 3,188,333	349 : 3,188,337	365.1 : 3,173,943	370 : 3,211,769
312 : 3,165,546	318 : 3,165,550	330 : 3,173,946	337 : 3,188,334	350 : 3,188,338	366.1 : 3,173,944	371 : 3,211,770
313 : 3,165,547	319 : 3,165,551	331 : 3,173,947	338 : 3,188,335	351 : 3,188,339	367.1 : 3,173,945	372 : 3,211,771
314 : 3,165,548	320 : 3,165,552	332 : 3,173,948	339 : 3,188,336	352 : 3,188,340	368.1 : 3,173,946	373 : 3,211,772
315 : 3,165,549	321 : 3,165,553	333 : 3,173,949	340 : 3,188,337	353 : 3,188,341	369.1 : 3,173,947	374 : 3,211,773
316 : 3,165,550	322 : 3,165,554	334 : 3,173,950	341 : 3,188,338	354 : 3,188,342	370.1 : 3,173,948	375 : 3,211,774
317 : 3,165,551	323 : 3,165,555	335 : 3,173,951	342 : 3,188,339	355 : 3,188,343	371.1 : 3,173,949	376 : 3,211,775
318 : 3,165,552	324 : 3,165,556	336 : 3,173,952	343 : 3,188,340	356 : 3,188,344	372.1 : 3,173,950	377 : 3,211,776
319 : 3,165,553	325 : 3,165,557	337 : 3,173,953	344 : 3,188,341	357 : 3,188,345	373.1 : 3,173,951	378 : 3,211,777
320 : 3,165,554	326 : 3,165,558	338 : 3,173,954	345 : 3,188,342	358 : 3,188,346	374.1 : 3,173,952	379 : 3,211,778
321 : 3,165,555	327 : 3,165,559	339 : 3,173,955	346 : 3,188,343	359 : 3,188,347	375.1 : 3,173,953	380 : 3,211,779
322 : 3,165,556	328 : 3,165,560	340 : 3,173,956	347 : 3,188,344	360 : 3,188,348	376.1 : 3,173,954	381 : 3,211,780
323 : 3,165,557	329 : 3,165,561	341 : 3,173,957	348 : 3,188,345	361 : 3,188,349	377.1 : 3,173,955	382 : 3,211,781
324 : 3,165,558	330 : 3,165,562	342 : 3,173,958	349 : 3,188,346	362 : 3,188,350	378.1 : 3,173,956	383 : 3,211,782
325 : 3,165,559	331 : 3,165,563	343 : 3,173,959	350 : 3,188,347	363 : 3,188,351	379.1 : 3,173,957	384 : 3,211,783
326 : 3,165,560	332 : 3,165,564	344 : 3,173,960	351 : 3,188,348	364 : 3,188,352	380.1 : 3,173,958	385 : 3,211,784
327 : 3,165,561	333 : 3,165,565	345 : 3,173,961	352 : 3,188,349	365 : 3,188,353	381.1 : 3,173,959	386 : 3,211,785
328 : 3,165,562	334 : 3,165,566	346 : 3,173,962	353 : 3,188,350	366 : 3,188,354	382.1 : 3,173,960	387 : 3,211,786
329 : 3,165,563	335 : 3,165,567	347 : 3,173,963	354 : 3,188,351	367 : 3,188,355	383.1 : 3,173,961	388 : 3,211,787
330 : 3,165,564	336 : 3,165,568	348 : 3,173,964	355 : 3,188,352	368 : 3,188,356	384.1 : 3,173,962	389 : 3,211,788
331 : 3,165,565	337 : 3,165,569	349 : 3,173,965	356 : 3,188,353	369 : 3,188,357	385.1 : 3,173,963	390 : 3,211,789
332 : 3,165,566	338 : 3,165,570	350 : 3,173,966	357 : 3,188,354	370 : 3,188,358	386.1 : 3,173,964	391 : 3,211,790
333 : 3,165,567	339 : 3,165,571	351 : 3,173,967	358 : 3,188,355	371 : 3,188,359	387.1 : 3,173,965	392 : 3,211,791
334 : 3,165,568	340 : 3,165,572	352 : 3,173,968	359 : 3,188,356	372 : 3,188,360	388.1 : 3,173,966	393 : 3,211,792
335 : 3,165,569	341 : 3,165,573	353 : 3,173,969	360 : 3,188,357	373 : 3,188,361	389.1 : 3,173,967	394 : 3,211,793
336 : 3,165,570	342 : 3,165,574	354 : 3,173,970	361 : 3,188,358	374 : 3,188,362	390.1 : 3,173,968	395 : 3,211,794
337 : 3,165,571	343 : 3,165,575	355 : 3,173,971	362 : 3,188,359	375 : 3,188,363	391.1 : 3,173,969	396 : 3,211,795
338 : 3,165,572	344 : 3,165,576	356 : 3,173,972	363 : 3,188,360	376 : 3,188,364	392.1 : 3,173,970	397 : 3,211,796
339 : 3,165,573	345 : 3,165,577	357 : 3,173,973	364 : 3,188,361	377 : 3,188,365	393.1 : 3,173,971	398 : 3,211,797
340 : 3,165,574	346 : 3,165,578	358 : 3,173,974	365 : 3,188,362	378 : 3,188,366	394.1 : 3,173,972	399 : 3,211,798
341 : 3,165,575	347 : 3,165,579	359 : 3,173,975	366 : 3,188,363	379 : 3,188,367	395.1 : 3,173,973	400 : 3,211,799
342 : 3,165,576	348 : 3,165,580	360 : 3,173,976	367 : 3,188,364	380 : 3,188,368	396.1 : 3,173,974	401 : 3,211,800
343 : 3,165,577	349 : 3,165,581	361 : 3,173,977	368 : 3,188,365	381 : 3,188,369	397.1 : 3,173,975	402 : 3,211,801
344 : 3,165,578	350 : 3,165,582	362 : 3,173,978	369 : 3,188,366	382 : 3,188,370	398.1 : 3,173,976	403 : 3,211,802
345 : 3,165,579	351 : 3,165,583	363 : 3,173,979	370 : 3,188,367	383 : 3,188,371	399.1 : 3,173,977	404 : 3,211,803
346 : 3,165,580	352 : 3,165,584	364 : 3,173,980	371 : 3,188,368	384 : 3,188,372	400.1 : 3,173,978	405 : 3,211,804
347 : 3,165,581	353 : 3,165,585	365 : 3,173,981	372 : 3,188,369	385 : 3,188,373	401.1 : 3,173,979	406 : 3,211,805
348 : 3,165,582	354 : 3,165,586	366 : 3,173,982	373 : 3,188,370	386 : 3,188,374	402.1 : 3,173,980	407 : 3,211,806
349 : 3,165,583	355 : 3,165,587	367 : 3,173,983	374 : 3,188,371	387 : 3,188,375	403.1 : 3,173,981	408 : 3,211,807
350 : 3,165,584	356 : 3,165,588	368 : 3,173,984	375 : 3,188,372	388 : 3,188,376	404.1 : 3,173,982	409 : 3,211,808
351 : 3,165,585	357 : 3,165,589	369 : 3,173,985	376 : 3,188,373	389 : 3,188,377	405.1 : 3,173,983	410 : 3,211,809
352 : 3,165,586	358 : 3,165,590	370 : 3,173,986	377 : 3,188,374	390 : 3,188,378	406.1 : 3,173,984	411 : 3,211,810
353 : 3,165,587	359 : 3,165,591	371 : 3,173,987	378 : 3,188,375	391 : 3,188,379	407.1 : 3,173,985	412 : 3,211,811
354 : 3,165,588	360 : 3,165,592	372 : 3,173,988	379 : 3,188,376	392 : 3,188,380	408.1 : 3,173,986	413 : 3,211,812
355 : 3,165,589	361 : 3,165,593	373 : 3,173,989	380 : 3,188,377	393 : 3,188,381	409.1 : 3,173,987	414 : 3,211,813
356 : 3,165,590	362 : 3,165,594	374 : 3,173,990	381 : 3,188,378	394 : 3,188,382	410.1 : 3,173,988	415 : 3,211,814
357 : 3,165,591	363 : 3,165,595	375 : 3,173,991	382 : 3,188,379	395 : 3,188,383	411.1 : 3,173,989	416 : 3,211,815
358 : 3,165,592	364 : 3,165,596	376 : 3,173,992	383 : 3,188,380	396 : 3,188,384	412.1 : 3,173,990	417 : 3,211,816
359 : 3,165,593	365 : 3,165,597	377 : 3,173,993	384 : 3,188,381	397 : 3,188,385	413.1 : 3,173,991	418 : 3,211,817
360 : 3,165,594	366 : 3,165,598	378 : 3,173,994	385 : 3,188,382	398 : 3,188,386	414.1 : 3,173,992	419 : 3,211,818
361 : 3,165,595	367 : 3,165,599	379 : 3,173,995	386 : 3,188,383	399 : 3,188,387	415.1 : 3,173,993	420 : 3,211,819
362 : 3,165,596	368 : 3,165,600	380 : 3,173,996	387 : 3,188,384	400 : 3,188,388	416.1 : 3,173,994	421 : 3,211,820
363 : 3,165,597	369 : 3,165,601	381 : 3,173,997	388 : 3,188,385	401 : 3,188,389	417.1 : 3,173,995	422 : 3,211,821
364 : 3,165,598	370 : 3,165,602	382 : 3,173,998	389 : 3,188,386	402 : 3,188,390	418.1 : 3,173,996	423 : 3,211,822
365 : 3,165,599	371 : 3,165,603	383 : 3,173,999	390 : 3,188,387	403 : 3,188,391	419.1 : 3,173,997	424 : 3,211,823
366 : 3,165,600	372 : 3,165,604	384 : 3,174,000	391 : 3,188,388	404 : 3,188,392	420.1 : 3,173,998	425 : 3,211,824
367 : 3,165,601	373 : 3,165,605	385 : 3,174,001	392 : 3,188,389	405 : 3,188,393	421.1 : 3,173,999	426 : 3,211,825
368 : 3,165,602	374 : 3,165,606	386 : 3,174,002	393 : 3,188,390	406 : 3,188,394	422.1 : 3,174,000	427 : 3,211,826
369 : 3,165,603	375 : 3,165,607	387 : 3,174,003	394 : 3,188,391	407 : 3,188,395	423.1 : 3,174,001	428 : 3,211,827
370 : 3,165,604	376 : 3,165,608	388 : 3,174,004	395 : 3,188,392	408 : 3,188,396	424.1 : 3,174,002	429 : 3,211,828
371 : 3,165,605	377 : 3,165,609	389 : 3,174,005	396 : 3,188,393	409 : 3,188,397	425.1 : 3,174,003	430 : 3,211,829
372 : 3,165,606	378 : 3,165,610	390 : 3,174,006	397 : 3,188,394	410 : 3,188,398	426.1 : 3,174,004	431 : 3,211,830
373 : 3,165,607	379 : 3,165,611	391 : 3,174,007	398 : 3,188,395	411 : 3,188,399	427.1 : 3,174,005	432 : 3,211,831
374 : 3,165,608	380 : 3,165,612	392 : 3,174,008	399 : 3,188,396	412 : 3,188,400	428.1 : 3,174,006	433 : 3,211,832
375 : 3,165,609	381 : 3,165,613	393 : 3,174,009	400 : 3,188,397	413 : 3,188,401	429.1 : 3,174,0	

Class 260—Con.	525 : 3.215.735	553 : 3.184.507	566 : 3.169.989	571 : 3.219.702	586 : 3.192.267	610 : 3.211.796
501 : 3.185.728	526 : 3.167.584	554 : 3.189.645	567 : 3.173.951	572 : 3.219.703	587 : 3.198.836	611 : 3.215.745
3.192.253	3.173.948	3.198.830	3.175.003	3.226.441	3.202.715	3.166.599
3.196.173	3.176.042	3.203.985	3.180.890	3.194.838	3.213.142	3.166.600
3.200.143	3.173.949	3.203.986	3.185.732	3.190.918	3.173.955	3.170.958
3.201.459	3.205.261	3.214.467	3.190.918	3.197.504	3.194.841	3.173.958
3.202.703	3.206.506	3.214.468	3.197.505	3.197.505	3.205.266	3.177.258
3.203.981	3.172.909	3.219.695	3.201.468	3.194.839	3.226.443	3.190.925
3.209.023	3.170.952	3.171.857	3.205.263	3.214.473	3.202.716	3.193.584
3.213.129	3.167.585	3.194.835	3.210.422	3.197.508	3.187.061	3.185.735
3.213.130	3.190.913	3.196.177	3.209.027	3.192.264	3.193.590	3.205.269
3.215.732	3.192.259	3.172.911	3.210.422	3.197.508	3.168.570	3.178.480
3.218.351	3.200.144	3.184.508	3.217.036	3.205.265	3.168.571	3.170.959
3.226.430	3.202.704	3.185.731	3.217.037	3.207.789	3.187.052	3.190.926
3.165.546	3.220.148	3.211.788	3.223.733	3.219.704	3.193.582	3.198.840
3.168.554	3.221.049	3.211.788	3.226.439	3.219.705	3.198.837	3.203.997
3.169.986	3.168.558	3.203.987	3.183.266	3.169.990	3.172.913	3.205.270
3.192.254	3.170.953	3.183.266	3.184.509	3.188.346	3.196.182	3.221.058
3.192.255	3.178.474	3.203.987	3.193.580	3.190.921	3.196.182	3.172.915
3.192.256	3.182.079	3.217.035	3.217.035	3.201.470	3.201.476	3.180.895
3.192.256	3.182.080	3.217.035	3.217.035	3.201.470	3.202.717	3.218.359
3.201.460	3.183.262	3.218.355	3.218.355	3.217.040	3.209.033	3.165.556
3.203.981	3.183.263	3.221.050	3.221.050	3.222.400	3.215.743	3.168.575
3.213.131	3.184.505	3.170.955	3.170.955	3.225.100	3.179.700	3.188.353
3.225.086	3.185.729	3.170.955	3.170.955	3.178.478	3.210.427	3.190.927
3.169.987	3.187.039	3.178.475	3.178.475	3.187.048	3.225.102	3.214.478
3.193.575	3.190.914	3.184.509	3.184.509	3.196.181	3.225.102	3.214.478
3.196.174	3.198.828	3.187.041	3.187.041	3.222.401	3.173.956	3.221.059
3.201.461	3.207.782	3.187.042	3.187.042	3.222.401	3.185.733	3.180.896
3.213.132	3.211.784	3.187.043	3.187.043	3.213.138	3.187.052	3.184.432
3.214.462	3.215.736	3.189.647	3.189.647	3.219.700	3.166.593	3.190.928
3.221.047	3.223.729	3.198.831	3.198.831	3.219.701	3.166.594	3.203.998
3.222.393	3.175.000	3.213.137	3.213.137	3.187.049	3.205.267	3.198.841
3.174.998	3.182.081	3.225.091	3.225.091	3.213.141	3.217.041	3.201.478
3.214.463	3.202.705	3.225.092	3.225.092	3.217.041	3.218.357	3.213.145
3.197.501	3.202.706	3.225.093	3.225.093	3.203.990	3.171.859	3.168.576
3.210.410	3.217.034	3.165.551	3.165.551	3.203.991	3.173.957	3.204.003
3.223.727	3.196.175	3.166.588	3.166.588	3.207.788	3.177.257	3.214.483
3.168.555	3.207.783	3.166.589	3.166.589	3.213.139	3.184.512	3.175.010
3.170.951	3.207.784	3.166.591	3.166.591	3.215.737	3.188.351	3.182.088
3.172.907	3.217.046	3.168.561	3.168.561	3.217.038	3.209.034	3.183.273
3.211.783	3.218.354	3.177.251	3.177.251	3.225.094	3.167.589	3.185.736
3.214.464	3.219.693	3.177.252	3.177.252	3.164.634	3.168.567	3.192.270
3.218.352	3.223.730	3.180.889	3.180.889	3.166.590	3.183.271	3.196.185
3.164.631	3.223.731	3.183.267	3.183.267	3.168.563	3.192.268	3.205.271
3.176.041	3.225.089	3.188.348	3.188.348	3.168.564	3.209.035	3.207.794
3.178.471	3.172.910	3.190.916	3.190.916	3.169.991	3.214.475	3.207.795
3.182.078	3.188.344	3.193.578	3.193.578	3.171.858	3.214.476	3.210.428
3.206.503	3.192.260	3.193.579	3.193.579	3.171.858	3.214.477	3.221.060
3.210.411	Re. 25.797	3.200.149	3.200.149	3.177.254	3.217.042	3.221.061
3.218.353	3.194.834	3.214.469	3.214.469	3.177.255	3.222.403	3.169.149
3.219.689	3.211.785	3.221.051	3.221.051	3.178.477	3.222.403	3.172.917
3.168.556	3.196.176	3.221.052	3.221.052	3.182.084	3.187.051	3.179.703
3.192.257	3.169.145	3.226.434	3.226.434	3.188.347	3.189.651	3.180.897
3.173.946	3.170.954	3.226.435	3.226.435	3.196.180	3.190.922	3.193.585
3.177.244	3.175.001	3.226.436	3.226.436	3.197.506	3.194.840	3.194.843
3.177.245	3.179.695	3.197.507	3.197.507	3.201.471	3.197.509	3.194.844
3.177.246	3.179.696	3.169.146	3.169.146	3.201.472	3.180.894	3.205.272
3.197.502	3.180.888	3.182.083	3.182.083	3.202.712	3.183.272	3.205.272
3.203.982	3.183.264	3.187.044	3.187.044	3.209.028	3.202.713	3.226.444
3.209.024	3.185.730	3.189.646	3.189.646	3.210.423	3.203.995	3.192.269
3.217.033	3.188.345	3.190.917	3.190.917	3.214.471	3.209.031	3.194.842
3.219.690	3.200.145	3.194.836	3.194.836	3.217.039	3.209.032	3.196.183
3.219.691	3.200.146	3.196.178	3.196.178	3.222.399	3.210.425	3.168.578
3.221.048	3.202.707	3.206.509	3.206.509	3.225.095	3.210.426	3.177.259
3.222.394	3.203.984	3.209.025	3.209.025	3.225.096	3.214.474	3.185.737
3.223.728	3.206.507	3.210.419	3.210.419	3.219.697	3.215.740	3.198.842
3.225.087	3.206.508	3.221.053	3.221.053	3.218.351	3.215.741	3.200.157
3.225.088	3.210.418	3.223.732	3.223.732	3.219.706	3.219.706	3.202.719
3.168.557	3.211.786	3.226.437	3.226.437	3.221.055	3.223.733	3.202.719
3.177.247	3.217.787	3.226.438	3.226.438	3.221.056	3.223.733	3.202.719
3.178.472	3.214.465	3.200.150	3.200.150	3.222.402	3.196.184	3.218.360
3.203.983	3.222.396	3.207.785	3.207.785	3.223.734	3.207.792	3.218.361
3.210.412	3.226.432	3.207.786	3.207.786	3.223.735	3.215.744	3.190.929
3.222.395	3.210.420	3.210.420	3.210.420	3.225.101	3.219.708	3.209.037
3.172.908	3.177.248	3.167.586	3.167.586	3.226.442	3.225.104	3.171.861
3.178.473	3.184.506	3.172.912	3.172.912	3.164.636	3.203.996	3.176.044
3.226.431	3.197.503	3.173.950	3.173.950	3.168.569	3.205.268	3.189.656
3.169.144	3.202.708	3.187.045	3.187.045	3.189.652	3.197.513	3.209.036
3.182.061	3.213.134	3.193.576	3.193.576	3.189.653	3.209.036	3.217.045
3.193.576	3.222.397	3.192.262	3.192.262	3.197.510	3.166.598	3.217.047
3.201.462	3.168.559	3.196.179	3.196.179	3.200.155	3.168.574	3.179.701
3.210.413	3.192.261	3.201.467	3.201.467	3.187.047	3.188.352	3.183.274
3.213.133	3.213.135	3.202.709	3.202.709	3.188.349	3.193.583	3.184.513
3.187.037	3.190.915	3.207.787	3.207.787	3.193.581	3.198.839	3.201.479
3.198.827	3.198.829	3.209.026	3.209.026	3.194.837	3.207.791	3.201.480
3.210.414	3.200.147	3.214.470	3.214.470	3.198.833	3.211.794	3.179.704
3.219.692	3.201.463	3.219.696	3.219.696	3.198.834	3.211.795	3.198.843
3.210.415	3.201.464	3.219.697	3.219.697	3.203.993	3.213.144	3.173.959
3.165.547	3.201.465	3.168.562	3.168.562	3.205.264	3.215.742	3.180.898
3.183.261	3.201.465	3.175.002	3.175.002	3.209.029	3.217.043	3.182.090
3.192.258	3.213.136	3.189.648	3.189.648	3.210.424	3.219.709	3.193.586
3.165.548	3.214.466	3.189.649	3.189.649	3.215.738	3.222.404	3.218.362
3.173.947	3.219.694	3.198.832	3.198.832	3.216.147	3.223.738	3.199.997
3.187.038	3.225.090	3.200.151	3.200.151	3.225.097	3.225.105	3.164.641
3.193.577	3.165.549	3.202.710	3.202.710	3.225.098	3.226.445	3.194.829
3.210.416	3.168.560	3.203.988	3.203.988	3.173.952	3.179.699	3.188.354
3.215.733	3.176.043	3.205.262	3.205.262	3.182.085	3.180.892	3.171.860
3.171.856	3.177.249	3.210.421	3.210.421	3.189.835	3.179.702	3.180.899
3.174.999	3.182.082	3.211.789	3.211.789	3.213.143	3.185.734	3.187.055
3.205.260	3.183.265	3.211.790	3.211.790	3.225.099	3.188.350	3.190.923
3.206.504	3.164.632	3.226.438	3.226.438	3.175.007	3.189.654	3.190.924
3.206.505	3.166.587	3.222.398	3.222.398	3.192.263	3.192.265	3.207.796
3.215.734	3.172.504	3.169.988	3.169.988	3.214.472	3.192.266	3.202.718

644 : 3.213.147	659 : 3.210.431	671 : 3.169.999	678 : 3.166.605	683.48 : 3.169.153	861 : 3.184.521	928 : 3.223.753
645 : 3.178.481	3.214.481	3.183.233	3.183.233	3.178.488	3.209.054	948 : 3.223.754
3.185.738	3.214.482	3.184.517	3.184.517	3.207.804	3.225.115	986 : 3.223.755
3.196.186	3.222.408	3.187.063	3.187.063	3.179.712	3.225.115	
3.201.481	3.173.963	3.189.660	3.189.660	3.176.046	3.207.815	Class 261
3.204.000	3.166.602	3.193.591	3.193.591	3.178.488	3.188.363	3 : 3.199.846
3.221.064	3.166.603	3.197.521	3.197.521	3.192.280	3.210.440	3.211.437
3.169.150	3.168.582	3.197.522	3.197.522	3.217.056	3.214.490	6 : 3.210.053
3.180.900	3.180.901	3.200.163	3.200.163	3.168.586	3.225.116	16 : 3.206.175
3.182.091	3.187.061	3.200.164	3.200.164	3.179.709	3.197.526	3.219.323
3.183.275	3.193.590	3.201.486	3.201.486	3.180.903	3.207.816	18 : 3.220.706
3.204.001	3.196.187	3.201.487	3.201.487	3.189.661	3.210.441	20 : 3.172.

Class 261—Con.

94 : 3,170,969	21 : 3,165,303	3 : 3,202,730	54 : 3,193,598	109 : 3,166,617	216 : 3,164,651	310 : 3,164,653
3,218,048	3,201,099	3,222,433	3,200,176	3,173,976	3,171,873	3,190,506
3,222,040	3,203,681	3,223,756	3,210,449	3,200,181	3,179,729	3,217,078
3,222,041	3,207,494	3,223,756	3,222,437	3,201,505	3,190,947	3,164,654
95 : 3,219,324	26 : 3,180,630	4 : 3,167,602	3,225,127	3,202,744	3,213,172	3,200,184
97 : 3,191,915	28 : 3,168,298	5 : 3,184,523	3,198,859	3,225,128	3,225,128	3,225,130
111 : 3,216,708	3,172,647	7 : 3,202,731	3,188,368	3,226,462	3,182,289	3,165,569
112 : 3,189,335	3,179,391	8 : 3,196,192	3,202,735	3,194,858	3,215,763	3,222,443
114 : 3,173,972	3,184,224	11 : 3,204,015	3,171,872	3,202,745	3,178,164	3,184,528
3,179,389	3,219,328	12 : 3,166,613	3,196,193	3,186,928	3,197,534	3,185,752
3,210,056	29 : 3,165,304	14 : 3,207,818	3,178,492	3,206,528	3,189,670	3,222,444
3,215,414	3,169,015	15 : 3,179,722	3,197,528	3,207,824	3,172,932	3,164,655
115 : 3,195,871	3,171,637	16 : 3,210,444	3,202,736	3,183,287	3,182,109	3,175,030
118 : 3,215,415	3,176,969	17 : 3,218,374	3,197,529	3,180,911	3,207,829	3,196,197
122 : 3,165,562	3,178,162	18 : 3,217,067	3,176,056	3,164,649	3,223,765	3,178,498
3,206,178	3,202,405	21 : 3,166,614	3,213,167	3,201,499	3,175,027	3,226,464
124 : 3,174,733	3,204,936	22 : 3,165,563	3,222,438	3,204,019	3,222,441	3,211,819
3,182,978	30 : 3,175,814	23 : 3,166,615	3,197,530	3,213,169	3,225,129	3,223,767
3,212,762	31 : 3,172,648	24 : 3,189,667	3,173,973	3,218,382	3,217,076	3,194,868
128 : 3,178,159	32 : 3,164,380	25 : 3,209,056	3,182,102	3,194,855	3,200,182	3,196,198
3,210,057	3,169,016	26 : 3,192,291	3,189,666	3,200,177	3,187,072	3,165,570
3,210,058	3,175,815	27 : 3,182,980	3,194,852	3,213,168	3,197,535	3,192,299
130 : 3,181,844	3,180,631	28 : 3,183,284	3,170,008	3,202,737	3,177,275	3,172,935
133 : 3,220,711	3,193,266	29 : 3,168,602	3,170,966	3,217,272	3,177,275	3,185,753
136 : 3,170,007	3,199,850	30 : 3,172,924	3,182,103	3,194,856	3,207,830	3,176,059
140 : 3,168,600	3,208,741	31 : 3,179,392	3,223,757	3,198,860	3,214,504	3,183,292
3,226,100	3,212,764	32 : 3,192,292	3,166,615	3,202,738	3,172,930	3,205,291
142 : 3,193,261	3,169,755	33 : 3,171,638	3,177,272	3,213,164	3,188,369	3,206,534
3,215,416	3,182,979	34 : 3,171,639	3,194,856	3,213,165	3,188,369	3,182,985
3,215,417	3,182,980	35 : 3,172,924	3,198,860	3,213,166	3,188,369	3,195,873
144 : 3,198,498	3,185,459	36 : 3,184,225	3,223,758	3,213,167	3,188,369	3,201,103
148 : 3,191,916	3,188,065	37 : 3,179,392	3,223,759	3,213,168	3,188,369	3,201,104
154 : 3,167,601	3,199,851	38 : 3,172,924	3,223,760	3,213,169	3,188,369	3,201,105
159 : 3,164,644	3,219,325	39 : 3,172,924	3,223,761	3,213,170	3,188,369	3,202,409
3,219,325	3,219,325	40 : 3,172,924	3,223,762	3,213,171	3,188,369	3,202,410
		41 : 3,172,924	3,223,763	3,213,172	3,188,369	3,202,411
		42 : 3,172,924	3,223,764	3,213,173	3,188,369	3,202,412
		43 : 3,172,924	3,223,765	3,213,174	3,188,369	3,202,413
		44 : 3,172,924	3,223,766	3,213,175	3,188,369	3,202,414
		45 : 3,172,924	3,223,767	3,213,176	3,188,369	3,202,415
		46 : 3,172,924	3,223,768	3,213,177	3,188,369	3,202,416
		47 : 3,172,924	3,223,769	3,213,178	3,188,369	3,202,417
		48 : 3,172,924	3,223,770	3,213,179	3,188,369	3,202,418
		49 : 3,172,924	3,223,771	3,213,180	3,188,369	3,202,419
		50 : 3,172,924	3,223,772	3,213,181	3,188,369	3,202,420
		51 : 3,172,924	3,223,773	3,213,182	3,188,369	3,202,421
		52 : 3,172,924	3,223,774	3,213,183	3,188,369	3,202,422
		53 : 3,172,924	3,223,775	3,213,184	3,188,369	3,202,423
		54 : 3,172,924	3,223,776	3,213,185	3,188,369	3,202,424
		55 : 3,172,924	3,223,777	3,213,186	3,188,369	3,202,425
		56 : 3,172,924	3,223,778	3,213,187	3,188,369	3,202,426
		57 : 3,172,924	3,223,779	3,213,188	3,188,369	3,202,427
		58 : 3,172,924	3,223,780	3,213,189	3,188,369	3,202,428
		59 : 3,172,924	3,223,781	3,213,190	3,188,369	3,202,429
		60 : 3,172,924	3,223,782	3,213,191	3,188,369	3,202,430
		61 : 3,172,924	3,223,783	3,213,192	3,188,369	3,202,431
		62 : 3,172,924	3,223,784	3,213,193	3,188,369	3,202,432
		63 : 3,172,924	3,223,785	3,213,194	3,188,369	3,202,433
		64 : 3,172,924	3,223,786	3,213,195	3,188,369	3,202,434
		65 : 3,172,924	3,223,787	3,213,196	3,188,369	3,202,435
		66 : 3,172,924	3,223,788	3,213,197	3,188,369	3,202,436
		67 : 3,172,924	3,223,789	3,213,198	3,188,369	3,202,437
		68 : 3,172,924	3,223,790	3,213,199	3,188,369	3,202,438
		69 : 3,172,924	3,223,791	3,213,200	3,188,369	3,202,439
		70 : 3,172,924	3,223,792	3,213,201	3,188,369	3,202,440
		71 : 3,172,924	3,223,793	3,213,202	3,188,369	3,202,441
		72 : 3,172,924	3,223,794	3,213,203	3,188,369	3,202,442
		73 : 3,172,924	3,223,795	3,213,204	3,188,369	3,202,443
		74 : 3,172,924	3,223,796	3,213,205	3,188,369	3,202,444
		75 : 3,172,924	3,223,797	3,213,206	3,188,369	3,202,445
		76 : 3,172,924	3,223,798	3,213,207	3,188,369	3,202,446
		77 : 3,172,924	3,223,799	3,213,208	3,188,369	3,202,447
		78 : 3,172,924	3,223,800	3,213,209	3,188,369	3,202,448
		79 : 3,172,924	3,223,801	3,213,210	3,188,369	3,202,449
		80 : 3,172,924	3,223,802	3,213,211	3,188,369	3,202,450
		81 : 3,172,924	3,223,803	3,213,212	3,188,369	3,202,451
		82 : 3,172,924	3,223,804	3,213,213	3,188,369	3,202,452
		83 : 3,172,924	3,223,805	3,213,214	3,188,369	3,202,453
		84 : 3,172,924	3,223,806	3,213,215	3,188,369	3,202,454
		85 : 3,172,924	3,223,807	3,213,216	3,188,369	3,202,455
		86 : 3,172,924	3,223,808	3,213,217	3,188,369	3,202,456
		87 : 3,172,924	3,223,809	3,213,218	3,188,369	3,202,457
		88 : 3,172,924	3,223,810	3,213,219	3,188,369	3,202,458
		89 : 3,172,924	3,223,811	3,213,220	3,188,369	3,202,459
		90 : 3,172,924	3,223,812	3,213,221	3,188,369	3,202,460
		91 : 3,172,924	3,223,813	3,213,222	3,188,369	3,202,461
		92 : 3,172,924	3,223,814	3,213,223	3,188,369	3,202,462
		93 : 3,172,924	3,223,815	3,213,224	3,188,369	3,202,463
		94 : 3,172,924	3,223,816	3,213,225	3,188,369	3,202,464
		95 : 3,172,924	3,223,817	3,213,226	3,188,369	3,202,465
		96 : 3,172,924	3,223,818	3,213,227	3,188,369	3,202,466
		97 : 3,172,924	3,223,819	3,213,228	3,188,369	3,202,467
		98 : 3,172,924	3,223,820	3,213,229	3,188,369	3,202,468
		99 : 3,172,924	3,223,821	3,213,230	3,188,369	3,202,469
		100 : 3,172,924	3,223,822	3,213,231	3,188,369	3,202,470
		101 : 3,172,924	3,223,823	3,213,232	3,188,369	3,202,471
		102 : 3,172,924	3,223,824	3,213,233	3,188,369	3,202,472
		103 : 3,172,924	3,223,825	3,213,234	3,188,369	3,202,473
		104 : 3,172,924	3,223,826	3,213,235	3,188,369	3,202,474
		105 : 3,172,924	3,223,827	3,213,236	3,188,369	3,202,475
		106 : 3,172,924	3,223,828	3,213,237	3,188,369	3,202,476
		107 : 3,172,924	3,223,829	3,213,238	3,188,369	3,202,477
		108 : 3,172,924	3,223,830	3,213,239	3,188,369	3,202,478
		109 : 3,172,924	3,223,831	3,213,240	3,188,369	3,202,479
		110 : 3,172,924	3,223,832	3,213,241	3,188,369	3,202,480
		111 : 3,172,924	3,223,833	3,213,242	3,188,369	3,202,481
		112 : 3,172,924	3,223,834	3,213,243	3,188,369	3,202,482
		113 : 3,172,924	3,223,835	3,213,244	3,188,369	3,202,483
		114 : 3,172,924	3,223,836	3,213,245	3,188,369	3,202,484
		115 : 3,172,924	3,223,837	3,213,246	3,188,369	3,202,485
		116 : 3,172,924	3,223,838	3,213,247	3,188,369	3,202,486
		117 : 3,172,924	3,223,839	3,213,248	3,188,369	3,202,487
		118 : 3,172,924	3,223,840	3,213,249	3,188,369	3,202,488
		119 : 3,172,924	3,223,841	3,213,250	3,188,369	3,202,489
		120 : 3,172,924	3,223,842	3,213,251	3,188,369	3,202,490
		121 : 3,172,924	3,223,843	3,213,252	3,188,369	3,202,491
		122 : 3,172,924	3,223,844	3,213,253	3,188,369	3,202,492
		123 : 3,172,924	3,223,845	3,213,254	3,188,369	3,202,493
		124 : 3,172,924	3,223,846	3,213,255	3,188,369	3,202,494
		125 : 3,172,924	3,223,847	3,213,256	3,188,369	3,202,495
		126 : 3,172,924	3,223,848	3,213,257	3,188,369	3,202,496
		127 : 3,172,924	3,223,849	3,213,258	3,188,369	3,202,497
		128 : 3,172,924	3,223,850	3,213,259	3,188,369	3,202,498
		129 : 3,172,924	3,223,851	3,213,260	3,188,369	3,202,499
		130 : 3,172,924	3,223,852	3,213,261	3,188,369	3,202,500
		131 : 3,172,924	3,223,853	3,213,262	3,188,369	3,202,501
		132 : 3,172,924	3,223,854	3,213,263	3,188,369	3,202,502
		133 : 3,172,924	3,223,855	3,213,264	3,188,369	3,202,503
		134 : 3,172,924	3,223,856	3,213,265	3,188,369	3,202,504
		135 : 3,172,924				

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26	: 3,206,195	80.1	: 3,206,206	128	: 3,206,210	186	: 3,166,326	36	: 3,207,519	188	: 3,207,523
	1 : 3,214,170		1 : 3,214,170	130	: 3,178,185		3,169,771	37	: 3,207,521	190	: 3,193,299
	2 : 3,191,936		2 : 3,191,936		3,179,414		3,172,668		3,214,180	193	: 3,174,762
	3 : 3,206,196		3 : 3,206,196		3,183,003		3,191,939	40	: 3,193,298	198	: 3,201,136
	4 : 3,214,166		4 : 3,214,166		3,191,937		3,194,563		3,215,439	199	: 3,166,333
	5 : 3,170,691		5 : 3,170,691		3,194,560		3,194,564	41	: 3,165,323		3,175,832
	6 : 3,173,689		6 : 3,173,689		3,195,893		3,194,565	42	: 3,185,488		3,179,427
	7 : 3,222,067		7 : 3,222,067		3,212,782		3,215,437		3,189,356	200	: 3,212,785
	8 : 3,198,086		8 : 3,198,086		3,224,778		3,224,778	38	: 3,184,242	201	: 3,214,182
	9 : 3,198,520		9 : 3,198,520		3,224,778		3,224,778	39	: 3,184,242	205	: 3,167,323
	10 : 3,203,696		10 : 3,203,696		3,224,778		3,224,778		3,189,356		3,171,661
	11 : 3,215,432		11 : 3,215,432		3,224,778		3,224,778	51	: 3,210,086		3,173,698
	12 : 3,190,649		12 : 3,190,649		3,224,778		3,224,778	53	: 3,173,698		3,175,833
	13 : 3,195,891		13 : 3,195,891		3,224,778		3,224,778	58	: 3,189,358		3,188,100
	14 : 3,206,197		14 : 3,206,197		3,224,778		3,224,778	59	: 3,186,723		3,189,359
	15 : 3,220,727		15 : 3,220,727		3,224,778		3,224,778		3,186,724		3,189,360
	16 : 3,180,644		16 : 3,180,644		3,224,778		3,224,778	206	: 3,173,699		3,173,699
	17 : 3,171,655		17 : 3,171,655		3,224,778		3,224,778		3,186,724		3,186,724
	18 : 3,224,766		18 : 3,224,766		3,224,778		3,224,778		3,188,096		3,188,096
	19 : 3,172,662		19 : 3,172,662		3,224,778		3,224,778		3,190,660		3,190,660
	20 : 3,193,289		20 : 3,193,289		3,224,778		3,224,778		3,218,085		3,218,085
	21 : 3,199,869		21 : 3,199,869		3,224,778		3,224,778		3,206,214		3,206,214
	22 : 3,174,751		22 : 3,174,751		3,224,778		3,224,778		3,226,125		3,226,125
	23 : 3,179,410		23 : 3,179,410		3,224,778		3,224,778		3,226,125		3,226,125
	24 : 3,183,001		24 : 3,183,001		3,224,778		3,224,778		3,226,125		3,226,125
	25 : 3,188,085		25 : 3,188,085		3,224,778		3,224,778		3,226,125		3,226,125
	26 : 3,189,348		26 : 3,189,348		3,224,778		3,224,778		3,226,125		3,226,125
	27 : 3,191,933		27 : 3,191,933		3,224,778		3,224,778		3,226,125		3,226,125
	28 : 3,191,934		28 : 3,191,934		3,224,778		3,224,778		3,226,125		3,226,125
	29 : 3,193,290		29 : 3,193,290		3,224,778		3,224,778		3,226,125		3,226,125
	30 : 3,195,892		30 : 3,195,892		3,224,778		3,224,778		3,226,125		3,226,125
	31 : 3,197,205		31 : 3,197,205		3,224,778		3,224,778		3,226,125		3,226,125
	32 : 3,199,870		32 : 3,199,870		3,224,778		3,224,778		3,226,125		3,226,125
	33 : 3,201,123		33 : 3,201,123		3,224,778		3,224,778		3,226,125		3,226,125
	34 : 3,206,198		34 : 3,206,198		3,224,778		3,224,778		3,226,125		3,226,125
	35 : 3,210,078		35 : 3,210,078		3,224,778		3,224,778		3,226,125		3,226,125
	36 : 3,212,778		36 : 3,212,778		3,224,778		3,224,778		3,226,125		3,226,125
	37 : 3,219,345		37 : 3,219,345		3,224,778		3,224,778		3,226,125		3,226,125
	38 : 3,224,766		38 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	39 : 3,224,766		39 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	40 : 3,224,766		40 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	41 : 3,224,766		41 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	42 : 3,224,766		42 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	43 : 3,224,766		43 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	44 : 3,224,766		44 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	45 : 3,224,766		45 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	46 : 3,224,766		46 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	47 : 3,224,766		47 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	48 : 3,224,766		48 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	49 : 3,224,766		49 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	50 : 3,224,766		50 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	51 : 3,224,766		51 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	52 : 3,224,766		52 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	53 : 3,224,766		53 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	54 : 3,224,766		54 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	55 : 3,224,766		55 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	56 : 3,224,766		56 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	57 : 3,224,766		57 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	58 : 3,224,766		58 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	59 : 3,224,766		59 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	60 : 3,224,766		60 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	61 : 3,224,766		61 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	62 : 3,224,766		62 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	63 : 3,224,766		63 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	64 : 3,224,766		64 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	65 : 3,224,766		65 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	66 : 3,224,766		66 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	67 : 3,224,766		67 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	68 : 3,224,766		68 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	69 : 3,224,766		69 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	70 : 3,224,766		70 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	71 : 3,224,766		71 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	72 : 3,224,766		72 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	73 : 3,224,766		73 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	74 : 3,224,766		74 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	75 : 3,224,766		75 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	76 : 3,224,766		76 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	77 : 3,224,766		77 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	78 : 3,224,766		78 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	79 : 3,224,766		79 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	80 : 3,224,766		80 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	81 : 3,224,766		81 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	82 : 3,224,766		82 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	83 : 3,224,766		83 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	84 : 3,224,766		84 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	85 : 3,224,766		85 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	86 : 3,224,766		86 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	87 : 3,224,766		87 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	88 : 3,224,766		88 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	89 : 3,224,766		89 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	90 : 3,224,766		90 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	91 : 3,224,766		91 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	92 : 3,224,766		92 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	93 : 3,224,766		93 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	94 : 3,224,766		94 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	95 : 3,224,766		95 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	96 : 3,224,766		96 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	97 : 3,224,766		97 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	98 : 3,224,766		98 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	99 : 3,224,766		99 : 3,224,766		3,224,778		3,224,778		3,226,125		3,226,125
	100 : 3,224,766		100 : 3,224,766		3,						

Class 285—Con.

233 : 3,198,559
3,206,233
3,215,455
3,223,438
235 : 3,212,799
236 : 3,177,015
238 : 3,186,743
3,203,715
3,219,367
239 : 3,210,100
243 : 3,167,334
3,181,900
3,191,975
247 : 3,177,016
3,195,933
249 : 3,188,122
3,201,153
3,218,094
252 : 3,174,777
256 : 3,165,338
3,222,094
258 : 3,210,101
3,211,476
263 : 3,165,339
264 : 3,216,751
266 : 3,180,664
268 : 3,206,234
270 : 3,177,017
277 : 3,177,018
3,188,123
284 : 3,208,776
285 : 3,219,368
286 : 3,198,560
3,201,154
3,211,477
288 : 3,177,019
3,224,797
3,224,798
302 : 3,199,900
305 : 3,220,754
308 : 3,207,536
312 : 3,195,934
3,204,991
316 : 3,165,340
3,195,935
317 : 3,167,335
3,215,456
318 : 3,218,095
322 : 3,178,208
323 : 3,214,200
328 : 3,211,478
330 : 3,183,024
3,204,992
332.1 : 3,218,096
3 : 3,166,345
3 : 3,226,138
333 : 3,175,850
334 : 3,224,799
5 : 3,195,936
337 : 3,175,851
341 : 3,174,778
3,185,508
3,215,457
342 : 3,194,592
350 : 3,201,155
353 : 3,207,537
355 : 3,173,712
360 : 3,211,479
363 : 3,214,201
3,219,369
364 : 3,198,561
3,199,901
3,214,202
365 : 3,201,156
367 : 3,181,901
368 : 3,179,449
3,219,370
373 : 3,186,744
3,223,439
374 : 3,210,102
406 : 3,165,341
410 : 3,207,538
414 : 3,214,203

Class 287

2 : 3,169,031
3,222,095
20 : 3,184,257
3,219,371
3,226,139
2 : 3,226,140
21 : 3,206,235
3,210,103
49 : 3,208,777
52 : 3,165,342
3,168,338
3,190,681
3,197,243
3,210,104
.04: RE.25,929
.05: 3,164,402

52.05: 3,175,852
.05: 3,191,976
.05: 3,206,236
53 : 3,167,336
3,167,337
3,169,032
3,172,689
3,179,450
3,181,902
3,184,258
3,188,124
3,193,312
3,211,480
3,214,204
3,215,458
3,222,096
5 : 3,174,779
54 : 3,185,509
3,189,373
3,195,937
3,195,938
3,208,778
3,211,481
3,216,752
3,218,097
58 : 3,194,593
3,197,244
3,198,562
3,211,482
62 : 3,224,800
78 : 3,183,025
81 : 3,174,780
82 : 3,195,939
85 : 3,207,539
87 : 3,165,343
3,168,339
3,177,020
3,178,209
3,197,245
3,199,902
3,202,444
3,208,779
3,210,105
3,210,106
3,211,483
3,216,753
3,216,754
3,220,755
3,220,756
3,226,141
3,226,142
88 : 3,172,690
90 : 3,191,977
3,210,107
3,224,801
93 : 3,193,313
3,201,157
3,203,716
3,210,108
3,219,372
96 : 3,183,026
3,198,563
100 : 3,179,451
3,185,510
3,199,903
3,216,755
3,218,098
103 : 3,174,781
3,179,452
3,219,373
104 : 3,220,757
111 : 3,203,717
3,215,459
3,226,143
117 : 3,201,158
3,211,484
119 : 3,167,338
3,168,340
3,168,341
3,186,745
3,194,594
125 : 3,173,713
126 : 3,170,721
3,211,485
127 : 3,173,714
3,178,210
129 : 3,185,511

Class 289

1.2 : 3,223,440
5 : 3,212,800
2 : 3,166,346
3,168,342
3,188,125
4 : 3,202,445
13 : 3,214,205
14 : 3,214,206
3,215,460
17 : 3,169,787
3,177,021
3,180,665
18 : 3,179,453
3,215,461

Class 290

1 : 3,175,094
3,206,609
2 : 3,219,831
4 : 3,187,188
3,188,479
3,191,050
3,210,553
3,221,172
5 : 3,165,635
31 : 3,221,173
38 : 3,167,659
3,175,095
3,177,368
3,180,997
3,206,610
3,210,554
40 : 3,171,966
3,176,142
3,187,189
3,187,190
3,192,394
3,198,954
3,210,555
3,219,832
3,222,532
3,226,558
42 : 3,200,255
3,204,110
52 : 3,177,369
3,185,854
3,187,191
54 : 3,209,155
3,209,156
55 : 3,222,533

Class 291

3 : 3,201,159
11 : 3,207,540
3,210,109
46 : 3,185,512

Class 292

5 : 3,181,903
11 : 3,188,126
15 : 3,219,374
18 : 3,178,213
19 : 3,186,746
22 : 3,215,462
26 : 3,207,542
40 : 3,183,027
48 : 3,206,237
50 : 3,177,022
52 : 3,207,543
59 : 3,174,782
60 : 3,179,454
61 : 3,222,097
62 : 3,203,718
65 : 3,179,455
66 : 3,212,801
3,214,207
70 : 3,180,666
3,208,780
71 : 3,201,160
76 : 3,214,208
80 : 3,189,374
84 : 3,191,978
86 : 3,175,853
93 : 3,181,904
101 : 3,197,246
3,212,802
102 : 3,205,003
103 : 3,174,783
107 : 3,212,803
109 : 3,181,905
3,207,544
111 : 3,204,993
113 : 3,174,784
3,189,375
3,193,314
3,194,595
3,226,144
117 : 3,198,564
120 : 3,220,759
123 : 3,173,715
128 : 3,177,023
3,208,781
3,212,804
144 : 3,167,339
3,179,456
147 : 3,173,716
163 : 3,172,691
3,197,247
167 : 3,203,719
169 : 3,186,747
3,193,315
3,216,756
173 : 3,201,161
3,222,098

175 : 3,171,678
177 : 3,169,788
195 : 3,179,457
3,206,238
198 : 3,206,239
200 : 3,180,667
202 : 3,166,347
3,201,162
205 : 3,207,545
216 : 3,171,677
3,190,682
3,201,163
3,206,240
218 : 3,212,805
220 : 3,207,541
224 : 3,188,127
227 : 3,204,994
228 : 3,174,785
229 : 3,206,241
240 : 3,188,128
246 : 3,224,802
251.5 : 3,174,786
5 : 3,186,748
5 : 3,204,995
5 : 3,208,782
256.5 : 3,164,403
69 : 3,178,211
262 : 3,195,940
273 : 3,164,404
276 : 3,180,668
280 : 3,171,679
3,178,212
3,180,669
3,201,164
3,203,720
281 : 3,185,513
288 : 3,174,787
302 : 3,183,029
303 : 3,183,030
304 : 3,170,722
311 : 3,167,340
3,172,692
336.3 : 3,191,979
3 : 3,194,596
3 : 3,201,165
3 : 3,203,721
3 : 3,208,783
3 : 3,208,784
3 : 3,212,806
337 : 3,190,683
3,208,785
341.11 : 3,191,980
12 : 3,171,680
13 : 3,207,546
15 : 3,179,458
15 : 3,204,996
16 : 3,188,129
18 : 3,223,441
347 : 3,174,788
3,190,684
348 : 3,211,486
353 : 3,177,024
3,211,487
356 : 3,179,459
358 : 3,216,757

Class 293

4 : 3,203,722
30 : 3,226,146
62 : 3,183,028
65 : 3,226,145
73 : 3,173,717
3,210,110
89 : 3,203,723
3,203,724

Class 294

1 : 3,204,997
5.5 : 3,166,348
15 : 3,169,033
3,178,214
3,180,670
3,214,209
3,226,147
16 : 3,169,034
3,169,789
3,181,906
3,186,749
3,197,248
3,199,904
3,207,547
3,211,488
3,214,210
3,219,375
3,219,376
3,226,148
19 : 3,169,790
3,183,031
3,194,597
3,208,786
3,210,111
3,215,463

19 : 3,218,099
3,219,377
20 : 3,185,514
22 : 3,199,905
27 : 3,185,515
31.2 : 3,211,489
33 : 3,166,349
3,177,025
3,193,316
50 : 3,226,149
5 : 3,198,719
7 : 3,210,112
7 : 3,219,378
54 : 3,177,026
3,198,565
56 : 3,186,750
63 : 3,179,460
64 : 3,174,789
3,195,941
3,203,725
3,219,379
3,219,380
3,223,442
65 : 3,183,032
3,223,443
5 : 3,169,791
5 : 3,198,566
66 : 3,178,215
67 : 3,164,405
3,165,344
3,165,345
3,167,341
3,167,342
3,167,343
3,170,723
3,171,681
3,177,027
3,178,216
3,189,376
3,193,317
3,206,242
3,212,807
69 : 3,185,516
3,195,942
3,219,381
70 : 3,191,982
3,198,567
74 : 3,167,344
3,181,907
3,188,130
3,203,726
77 : 3,165,346
78 : 3,194,598
80 : 3,194,599
81 : 3,180,671
3,191,983
3,197,249
3,206,243
3,210,113
3,210,114
3,212,808
3,219,382
3,220,760
3,220,761
82 : 3,202,446
3,210,115
83 : 3,167,345
3,173,718
3,174,790
3,175,854
3,177,028
3,179,461
3,181,908
3,191,984
3,193,318
3,208,787
3,218,100
3,224,803
3,224,804

84 : 3,167,346
86 : 3,178,217
3,184,259
13 : 3,166,350
13 : 3,173,719
15 : 3,199,906
15 : 3,208,788
29 : 3,199,907
31 : 3,191,981
87 : 3,185,517
2 : 3,167,347
2 : 3,184,260
2 : 3,199,908
2 : 3,199,909
2 : 3,202,447
2 : 3,202,448
24 : 3,174,791
26 : 3,186,751
88 : 3,164,406
3,165,347
3,165,348
3,177,029
3,180,672
3,193,319
3,198,568

88 : 3,199,910
3,202,449
3,211,490
89 : 3,201,166
90 : 3,172,693
3,190,685
3,215,464
91 : 3,202,450
93 : 3,172,694
95 : 3,199,911
96 : 3,166,351
97 : 3,165,349
101 : 3,178,218
3,189,377
102 : 3,197,250
104 : 3,175,855
3,178,219
3,186,752
3,197,251
3,198,569
3,207,548
110 : 3,193,320
3,208,789
113 : 3,198,570
118 : 3,201,167
131 : 3,195,943

Class 296

1 : 3,186,753
3,201,168
3,212,809
10 : 3,181,909
3,222,099
3,224,805
19 : 3,204,998
20 : 3,222,100
23 : 3,165,350
3,170,724
3,175,856
3,175,857
3,177,030
3,179,462
3,181,910
3,185,518
3,186,754
3,193,321
3,212,810
3,215,465
24 : 3,190,686
3,190,687
3,214,211
3,226,150
26 : 3,184,261
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27 : 3,168,343
28 : RE.25,914
3,168,344
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3,186,755
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3,218,101
37 : 3,177,033
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2 : 3,210,117
44 : 3,184,263
3,201,169
3,208,791
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3,214,212
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3,223,445
5 : 3,216,759
46 : 3,195,945
47 : 3,204,999
50 : 3,211,493
56 : 3,189,378
57 : 3,179,463
3,180,673
63 : 3,170,725
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65 : 3,165,351
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3,207,549
66 : 3,171,682

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5 : 3,180,678
16 : 3,172,696
17 : 3,179,465
19 : 3,180,679
28 : 3,186,757
29 : 3,165,354
36 : 3,197,253
37 : 3,207,552
42 : 3,199,915
45 : 3,214,217
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64 : 3,193,324
65 : 3,171,684
68 : 3,211,495
71 : 3,188,136
75 : 3,166,352
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83 : 3,191,990
85 : 3,164,407

66 : 3,202,453
68 : 3,220,762
69 : 3,188,134
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76 : 3,211,494
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78.1 : 3,193,322
84 : 3,167,348
3,171,683
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87 : 3,174,792
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95 : 3,184,264
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3,226,152
99 : 3,169,792
100 : 3,165,352
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101 : 3,202,456
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107 : 3,180,677
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121 : 3,216,763
136 : 3,170,726
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3,222,103
3,223,446
137 : 3,165,353
3,167,349
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3,212,812
3,212,813
3,220,763
145 : 3,191,989

CLASSIFICATION OF PATENTS

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453 : 3,169,035	374 : 3,216,766	455 : 3,175,863	21 : 3,212,819	37 : 3,175,867	40 : 3,210,132	88 : 3,169,195
762 : 3,169,794	377 : 3,171,687	3,189,386	Class 301	42 : 3,179,471	48 : 3,166,358	3,169,196
134 : 3,172,697	3,180,682	3,205,009		3,186,770	3,190,700	3,170,069
573 : 3,185,520	379 : 3,185,526	456 : 3,188,142	1 : 3,167,357	49 : 3,171,693	49 : 3,183,041	3,171,969
494 : 3,226,155	384 : 3,165,357	3,193,328	5 : 3,164,413	3,178,235	3,208,802	3,171,970
760 : 3,179,466	3,188,139	3,198,578	1 : 3,167,357	3,178,236	52 : 3,169,804	3,171,971
322 : 3,207,553	3,218,103	3,206,250	5 : 3,164,413	3,178,237	3,179,474	3,174,049
348 : 3,184,266	3,220,769	457 : RE.25,710	3,166,356	3,203,738	3,183,042	3,174,050
683 : 3,190,690	385 : 3,174,798	3,206,251	3,177,039	3,206,254	3,198,586	3,174,051
466 : 3,171,685	3,175,862	458 : 3,203,734	3,191,997	3,219,393	3,207,561	3,175,096
792 : 3,175,860	3,178,222	460 : 3,197,255	3,201,174	3,224,813	3,219,396	3,176,144
727 : 3,175,861	3,178,223	3,205,010	3,202,459	50 : 3,169,799	53 : 3,205,021	3,176,145
215 : 3,178,223	3,178,224	462 : 3,181,913	3,207,557	51 : 3,198,584	56 : 3,216,771	3,177,370
264 : 3,168,346	3,186,762	Class 298	6 : 3,168,348	52 : 3,174,807	63 : 3,220,780	3,178,581
000 : 3,172,698	3,186,762		3,177,040	3,180,689	68 : 3,220,781	3,178,582
216 : 3,186,758	3,194,602	1 : 3,164,410	3,186,766	3,180,690	69 : 3,177,043	3,181,001
385 : 3,220,765	3,199,917	10 : 3,166,357	9 : 3,166,357	3,189,388	71 : 3,201,179	3,181,002
033 : 3,222,104	3,207,554	13 : 3,194,605	10 : 3,186,767	3,191,998	3,224,815	3,183,363
265 : 3,224,806	386 : 3,178,225	2 : 3,178,228	13 : 3,194,606	3,193,332	74 : 3,175,870	3,184,601
986 : 3,195,949	388 : 3,164,409	5 : 3,189,387	3,199,920	3,199,925	82 : 3,175,871	3,188,480
323 : 3,226,154	3,171,688	3,212,818	36 : 3,223,455	3,202,461	84 : 3,194,608	3,188,481
946 : 3,185,521	3,172,700	8 : 3,193,329	37 : 3,167,358	3,206,255	3,201,180	3,189,749
913 : 3,212,814	3,180,684	10 : 3,193,330	3,168,349	3,207,560	3,212,826	3,191,052
170 : 3,178,220	3,184,267	17 : 3,205,011	3,170,733	3,212,824	3,224,816	3,191,053
244 : 3,189,379	3,190,694	20 : 3,224,811	3,172,704	3,215,473	86 : 3,180,695	3,191,054
792 : 3,174,796	3,191,993	22 : 3,181,914	3,174,803	3,220,778	Class 305	3,193,691
151 : 3,191,991	3,193,327	20 : 3,175,864	3,178,231	3,226,166	2 : 3,223,461	3,193,692
152 : 3,174,795	3,199,918	3,181,761	3,181,915	53 : 3,173,725	10 : 3,216,772	3,193,693
792 : 3,191,992	3,205,004	22 : 3,172,703	3,183,038	3,188,145	11 : 3,178,239	3,193,694
352 : 3,194,600	3,211,496	3,179,470	3,183,039	3,188,146	3,195,962	3,196,280
345 : 3,216,764	3,214,218	3,195,956	3,188,143	3,195,960	3,195,962	3,197,649
464 : 3,197,254	3,219,387	3,202,458	3,199,921	3,197,259	3,206,258	3,197,650
674 : 3,216,765	3,222,107	3,203,735	3,202,460	3,210,131	3,218,107	3,198,955
756 : 3,212,815	389 : 3,165,358	3,210,120	3,206,253	3,220,779	3,223,457	3,198,956
171 : 3,212,816	3,172,701	3,211,498	3,214,219	55 : 3,197,260	13 : 3,165,364	3,200,256
454 : 3,190,691	3,178,226	23 : 3,164,411	3,219,391	3,197,261	14 : 3,168,354	3,201,593
455 : 3,220,766	3,203,733	3,173,724	3,220,775	56 : 3,175,868	16 : 3,164,416	3,201,594
001 : 3,193,325	3,218,104	30 : 3,180,686	38 : 3,208,798	58 : 3,177,042	18 : 3,172,707	3,202,830
002 : 3,164,408	391 : 3,171,689	35 : 3,185,528	39 : 3,184,268	3,179,472	19 : 3,205,022	3,204,111
456 : 3,186,759	3,180,683	3,198,579	43 : 3,169,798	3,195,961	31 : 3,198,587	3,205,369
550 : 3,222,105	3,207,555	38 : 3,183,037	51 : 3,174,804	3,206,256	32 : 3,164,417	3,207,911
688 : 3,189,380	3,216,767	Class 299	53 : 3,218,105	59 : 3,169,038	34 : 3,223,462	3,207,912
987 : 3,198,574	3,224,809	1 : 3,198,580	59 : 3,199,922	3,214,222	35 : 3,188,150	3,210,557
728 : 3,226,156	395 : 3,220,770	4 : 3,205,012	63 : 3,210,126	3,219,394	3,210,133	3,211,915
245 : 3,180,680	397 : 3,172,702	5 : 3,215,471	108 : 3,220,776	61 : 3,202,462	38 : 3,205,023	3,211,916
761 : 3,166,354	3,173,721	8 : 3,210,121	3,226,162	3,214,223	57 : 3,194,609	3,211,917
153 : 3,215,467	3,195,953	11 : 3,167,354	Class 302	64 : 3,224,814	58 : 3,207,562	3,213,289
914 : 3,185,522	3,205,005	15 : 3,190,696	2 : 3,172,705	66 : 3,180,691	3,171,695	3,214,600
118 : 3,165,355	3,223,447	17 : 3,180,687	2 : 3,172,705	3,190,701	3,179,475	3,218,464
677 : 3,165,356	3,226,159	30 : 3,203,736	3,198,581	3,206,256	Class 306	3,219,835
947 : 3,186,760	403 : 3,174,799	31 : 3,169,796	3,210,124	Class 303	33 : 3,169,805	3,221,175
729 : 3,174,797	410 : 3,186,763	3,203,737	3,198,582	1 : 3,179,473	3,172,708	3,221,176
858 : 3,188,137	411 : 3,191,994	3,212,820	3,206,257	2 : 3,199,926	41 : 3,184,270	3,221,177
034 : 3,220,767	3,226,157	3,222,110	3,206,257	4 : 3,188,147	Class 307	3,221,178
675 : 3,220,767	416 : 3,206,249	3,226,163	3,206,257	5 : 3,180,692	3 : 3,211,914	3,222,536
135 : 3,226,157	417 : 3,191,995	3,205,014	3,206,257	6 : 3,164,414	10 : 3,174,048	3,225,210
762 : 3,199,916	418 : 3,180,681	3,214,412	3,205,014	3,164,415	3,192,395	3,225,211
763 : 3,220,768	423 : 3,167,351	3,178,229	3,205,014	3,165,363	3,194,970	3,226,562
726 : 3,223,448	3,173,722	3,201,173	3,205,014	3,168,351	3,202,829	3,3 : 3,187,192
589 : 3,185,523	3,205,006	3,208,796	3,205,014	3,172,706	3,222,534	3,3 : 3,189,750
676 : 3,195,950	3,220,772	3,201,175	3,205,014	3,180,693	3,224,816	3,3 : 3,205,370
2,102 : 3,189,381	3,188,140	3,208,796	3,205,014	3,183,040	3,225,210	3,5 : RE.25,867
2,103 : 3,183,034	3,190,695	3,212,821	3,205,014	3,184,269	3,225,211	3,5 : 3,164,727
3,446 : 3,203,731	426 : 3,185,524	3,216,768	3,205,014	3,201,176	3,226,562	3,5 : 3,164,730
5,353 : 3,185,524	3,188,138	3,220,777	3,205,014	3,201,177	3,226,562	3,5 : 3,165,636
7,349 : 3,207,551	3,207,551	3,216,768	3,205,014	3,205,018	3,226,562	3,5 : 3,165,637
4,793 : 3,171,686	251 : 3,171,686	3,220,777	3,205,014	3,216,769	3,226,562	3,5 : 3,165,638
4,794 : 3,190,692	3,190,692	3,226,164	3,205,014	3,216,770	3,226,562	3,5 : 3,165,639
0,689 : 3,170,727	253 : 3,170,727	3,218,233	3,205,014	3,218,106	3,226,562	3,5 : 3,165,640
1,988 : 3,206,247	254 : 3,206,247	3,207,558	3,205,014	3,219,395	3,226,562	3,5 : 3,165,641
5,948 : 3,166,355	256 : 3,166,355	3,186,769	3,205,014	3,223,458	3,226,562	3,5 : 3,165,642
7,252 : 3,169,036	3,169,036	3,195,958	3,205,014	3,197,258	3,226,562	3,5 : 3,165,643
2,457 : 3,193,326	257 : 3,193,326	3,198,583	3,205,014	3,171,694	3,226,562	3,5 : 3,165,644
3,730 : 3,195,951	260 : 3,195,951	3,208,799	3,205,014	3,180,694	3,226,562	3,5 : 3,165,645
6,246 : 3,190,693	263 : 3,190,693	3,214,221	3,205,014	3,198,585	3,226,562	3,5 : 3,165,646
8,793 : 3,167,350	267 : 3,167,350	3,223,456	3,205,014	3,213,726	3,226,562	3,5 : 3,165,647
2,811 : 3,183,035	281 : 3,183,035	3,226,165	3,205,014	3,173,727	3,226,562	3,5 : 3,165,648
2,812 : 3,178,221	284 : 3,178,221	3,210,127	3,205,014	3,174,808	3,226,562	3,5 : 3,165,649
2,813 : 3,215,468	304 : 3,215,468	3,216,769	3,205,014	3,188,148	3,226,562	3,5 : 3,165,650
0,763 : 3,224,807	304 : 3,224,807	3,207,559	3,205,014	3,199,927	3,226,562	3,5 : 3,165,651
1,989 : 3,169,795	309 : 3,169,795	3,212,823	3,205,014	3,205,019	3,226,562	3,5 : 3,165,652
0,678 : 3,219,386	313 : 3,219,386	3,214,220	3,205,014	3,223,459	3,226,562	3,5 : 3,165,653
2,696 : 3,210,119	322 : 3,210,119	3,218,233	3,205,014	3,226,165	3,226,562	3,5 : 3,165,654
9,465 : 3,172,699	327 : 3,172,699	3,219,390	3,205,014	3,226,165	3,226,562	3,5 : 3,165,655
0,679 : 3,198,575	328 : 3,198,575	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,656
0,679 : 3,218,102	330 : 3,218,102	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,657
6,757 : 3,222,106	332 : 3,222,106	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,658
5,354 : 3,194,601	333 : 3,194,601	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,659
7,253 : 3,224,808	341 : 3,224,808	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,660
7,552 : 3,198,576	342 : 3,198,576	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,661
9,915 : 3,170,728	344 : 3,170,728	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,662
4,217 : 3,215,469	348 : 3,215,469	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,663
0,764 : 3,186,761	349 : 3,186,761	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,664
0,324 : 3,189,382	351 : 3,189,382	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,665
1,684 : 3,215,470	353 : 3,215,470	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,666
1,495 : 3,179,467	359 : 3,179,467	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,667
8,136 : 3,226,158	361 : 3,226,158	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,668
6,352 : 3,189,383	365 : 3,189,383	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,669
6,353 : 3,198,577	367 : 3,198,577	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,670
1,990 : 3,185,525	374 : 3,185,525	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,671
54,407 : 3,195,952	374 : 3,195,952	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,672
	3,206,248	3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,673
		3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,674
		3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,165,675
		3,223,451	3,205,014	3,226,165	3,226,562	3,5 : 3,

Class 307 - Con.

88.5 : 3,179,818

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Class 308

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	3.201,182	196	: 3.201,185	7	: 3.177,382		3.204,136		3.196,302	235	: 3.171,998		3.206,807
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15	: 3.168,357		3.208,806	7	: 3.187,207		3.171,994		3.170,079	236	: 3.182,217	202	: 3.188,157
	3.174,810	204	: 3.188,155	7	: 3.192,418		3.196,298		3.176,175		3.192,424	204	: 3.166,364
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	3.220,783		3.206,363	1	: 3.192,419		3.226,579		3.173,042		3.204,138	206	: 3.189,391
19	: 3.183,046	217	: 3.167,365	1	: 3.209,178	52	: 3.189,769		3.185,877	115	: 3.185,877		3.194,621
	3.210,137		3.172,710	1	: 3.221,189	53	: 3.213,304		3.184,624	118	: 3.191,080	246	: 3.173,046
22	: 3.183,047		3.199,935	4	: 3.176,168	54	: 3.165,655		3.185,872	126	: 3.175,111		3.175,113
	3.193,335		3.202,467	4	: 3.185,870		3.184,624		3.214,617		3.209,185		3.199,936
	3.212,830		3.205,029	5	: 3.192,420		3.217,193		3.217,193	128	: 3.173,043		3.206,265
	3.212,831	219	: 3.194,617	7	: 3.165,651		3.218,490		3.191,079	137	: 3.184,627	247	: 3.176,177
23	: 3.202,463		3.226,169	7	: 3.167,668		3.191,079		3.207,934	149	: 3.183,386		3.177,388
26	: 3.170,736	225	: 3.188,156	7	: 3.202,846		3.218,490		3.219,855	153	: 3.226,583		3.179,830
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	3.194,614	231	: 3.194,618	10	: 3.167,669		3.218,491		3.219,855		3.178,599		3.173,047
	3.215,477	235	: 3.226,170		3.194,990		3.219,855		3.226,580		3.182,215	254	: 3.226,586
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35	: 3.218,109	238	: 3.161,366		3.171,990	59	: 3.175,109		3.176,173		3.201,622		3.174,066
36.1	: 3.179,476	240	: 3.206,264		3.176,169		3.176,173		3.184,625		3.215,873	259	: 3.188,505
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.3	: 3.164,420	243	: 3.164,424		3.179,824		3.226,582		3.225,231		3.219,859	266	: 3.209,187
.4	: 3.188,153				3.182,213		3.183,379		3.225,231	<td>3.223,866	268	: 3.165,657	
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	3.194,615				3.183,381		3.183,381	66	: 3.185,873	156	: 3.164,734	214	: 3.179,408
	3.205,026	2	: 3.184,620		3.183,381		3.183,381	67	: 3.179,825		3.164,735		3.171,051
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	3.206,260	4	: 3.169,200		3.189,768		3.189,768		3.173,038		3.181,018		3.189,773
47	: 3.198,589		3.173,032		3.196,296		3.196,296		3.183,383		3.181,019		3.193,715
49	: 3.222,111		3.174,063		3.201,622		3.201,622		3.194,994		3.183,387		3.219,861
54	: 3.170,737		3.175,105		3.209,179		3.209,179		3.198,972		3.189,770		3.221,196
55	: 3.186,776		3.176,164		3.210,576		3.210,576		3.200,272		3.189,771	216	: 3.189,392
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	3.223,464		3.189,765		3.215,869		3.215,869		3.219,856	160	: 3.177,387		3.199,937
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	3.205,028		3.191,076		3.215,871		3.215,871		3.222,555	162	: 3.189,772	7	: 3.164,425
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83	: 3.211,501		3.198,968		3.219,852		3.219,852		3.225,232		3.206,629	19	: 3.216,773
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121	: 3.164,421		3.201,618		3.223,860	70	: 3.198,973		3.226,584		3.226,584	31.2	: 3.211,503
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	3.186,778		3.202,843	12	: 3.176,170		3.218,492		3.181,020		3.181,020	38	: 3.198,591
	3.194,616		3.177,384		3.177,384	71	: 3.185,875		3.204,137		3.214,226		3.224,226
	3.199,933		3.202,844		3.225,228		3.210,578		3.218,600	166	: 3.178,600		3.215,481
	3.211,502		3.205,380	13	: 3.218,489		3.219,857		3.187,211		3.222,112		3.222,112
	3.215,479		3.206,624	14	: 3.202,847	75	: 3.173,039		3.223,867		3.167,367	39	: 3.167,367
	3.215,480		3.210,575		3.219,853		3.201,623		3.166,686	168	: 3.166,686		3.167,368
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	3.193,337		3.215,868	15	: 3.173,036		3.223,863		3.182,216		3.211,504		3.202,470
126	: 3.198,590		3.217,189		3.177,385	76	: 3.165,656		3.184,628		3.193,339	42	: 3.193,339
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132	: 3.164,422		3.223,857		3.223,857		3.174,064	77	: 3.205,384		3.226,172	229	: 3.210,144
	3.184,272		3.223,858	17	: 3.183,382		3.185,876		3.215,877		3.178,247	231	: 3.165,367
	3.210,138	5	: 3.187,206	20	: 3.175,108		3.219,858		3.215,878		3.194,620		3.168,363
	3.224,819		3.191,077		3.215,872	78	: 3.174,065		3.191,083	172	: 3.191,083		3.189,393
134.1	: 3.177,044		3.205,381	21	: 3.171,991		3.196,299		3.196,303		3.167,369	71	: 3.167,369
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	3.170,739		3.173,033	22	: 3.204,133		3.222,190	83	: 3.167,671		3.214,619		3.206,268
136	: 3.174,812		3.184,621	25	: 3.202,848		3.221,194		3.169,201	178	: 3.187,212		3.220,782
137	: 3.170,740		3.192,414		3.221,190		3.169,202		3.219,936		3.219,936		3.224,822
155	: 3.224,820		3.206,625	26	: 3.165,653		3.173,040		3.217,199		3.217,199	73	: 3.173,728
160	: 3.183,048		3.222,553		3.173,037		3.175,110	179	: 3.221,195		3.207,564		3.207,564
	3.197,264	7	: 3.201,620		3.194,991		3.187,209		3.214,620	181	: 3.214,620	97	: 3.190,706
	3.201,184	8.1	: 3.176,167		3.198,971		3.209,182		3.219,828	183	: 3.219,828	107	: 3.219,400
	3.202,465		3.176,167	27	: 3.194,992		3.168,662		3.223,868	185	: 3.223,868	5	: 3.175,872
170	: 3.165,365	2	: 3.179,826	29	: 3.167,670		3.212,214		3.201,626	186	: 3.201,626	108	: 3.170,742
172	: 3.207,563		3.185,868		3.170,778	87	: 3.209,183		3.212,214	191	: 3.192,422		3.224,823
174	: 3.167,363	2	: 3.189,767	30	: 3.177,386		3.211,935		3.200,276		3.200,276	111	: 3.195,966
	3.168,359	2	: 3.198,970		3.184,622		3.221,193		3.196,304	194	: 3.196,304		3.203,744
	3.203,742	2	: 3.209,176	35	: 3.222,554		3.196,300	89	: 3.196,300		3.226,585	138	: 3.189,390
176	: 3.214,224		3.218,488	36	: 3.184,623		3.167,672		3.214,621	198	: 3.201,627	140.1	: 3.169,810
177	: 3.178,241	3	: 3.168,659		3.217,191		3.168,663		3.219,937	201	: 3.192,423		3.169,811
	3.214,225	3	: 3.173,034	37	: 3.177,383		3.183,384		3.197,265	203	: 3.205,385		3.197,265
184	: 3.166,362	3	: 3.177,381		3.164,732		3.196,301		3.200,275	208	: 3.176,176		3.202,468
	3.186,779	3	: 3.181,016	37	: 3.164,732		3.200,275		3.212,193		3.205,386		3.226,172
	3.205,024	3	: 3.192,415		3.164,733		3.210,581		3.214,618	209	: 3.187,213		3.179,479
	3.219,399	3	: 3.202,845		3.191,078		3.210,581		3.217,193		3.200,277	3	: 3.219,401
185	: 3.192,001	3	: 3.209,177		3.202,849		3.221,193		3.176,174	211	: 3.164,736	183	: 3.203,745
187	: 3.177,045	3	: 3.210,580	38	: 3.176,171		3.213,301	91	: 3.179,827		3.194,995		3.224,824

Class 317—Con.	261 : 3,187,242	37 : 3,172,027	212 : 3,209,225	341 : 3,213,343	3 : 3,225,282	69 : 3,223,918
235 : 3,223,903	262 : 3,172,024	39 : 3,184,663	218 : 3,202,896	345 : 3,213,912	4 : 3,213,347	70 : 3,181,054
3,223,904	3,182,239	44 : 3,165,683	220 : 3,200,317	3,192,462	5 : 3,168,692	
3,225,272	3,200,313	46 : 3,210,629	221 : 3,167,699	3,209,228	3,176,211	
236 : Re. 25,875	3,201,668	51 : 3,174,086	3,201,673	3,214,667	2 : 3,178,631	
3,189,801	3,215,911	52 : 3,183,422	3,207,967	3,214,668	3,179,873	
3,210,623		58 : 3,184,664	3,211,982	3,221,237	3,210,635	
3,221,221		62 : 3,226,618	3,226,620	3,215,919	3,213,348	
237 : 3,176,204		67 : 3,176,207	223 : 3,207,968	350 : 3,183,427	3,217,231	
3,201,666		72 : 3,178,624	224 : 3,167,700	370 : 3,188,547	7 : 3,178,630	
3,210,624		76 : 3,199,008	3,175,142	379 : 3,204,171	8 : 3,176,212	
3,214,654		77 : 3,206,664	3,175,143	380 : 3,222,587	5 : 3,205,428	
3,225,273		78 : 3,164,760	3,175,144	381 : 3,184,666	10 : 3,191,116	
238 : 3,184,659		79 : 3,174,087	3,197,686	432 : 3,217,223	16 : 3,226,626	
3,193,741		80 : 3,189,804	3,214,665	439 : 3,183,428	17 : 3,167,702	
3,221,222		81 : 3,189,807	3,221,232	443 : 3,219,901	24 : 3,209,233	
240 : 3,199,004		82 : 3,205,420	3,221,233	445 : 3,189,812	25 : 3,211,987	
3,209,218		83 : 3,223,906	3,226,621	447 : 3,195,033	28 : 3,168,693	
242 : 3,181,044		84 : 3,214,659	3,226,619	460 : 3,164,762	3,210,644	
3,183,419		85 : 3,202,893	3,193,746	3,181,052	3,209,239	
3,195,027		86 : 3,205,418	3,204,167	3,195,034	3,170,109	
3,221,223		16 : 3,169,218	3,226,622	3,177,421	3,170,110	
243 : 3,209,217		17 : 3,193,743	3,217,218	3,195,036	3,173,074	
3,209,219		18 : 3,197,683	3,223,907	3,206,666	3,184,673	
245 : 3,185,903		122 : 3,215,916	3,223,907	3,215,916	3,185,916	
246 : 3,167,695		125 : 3,179,866	3,223,907	3,215,917	3,193,755	
3,188,538		127 : 3,168,690	3,223,907	3,215,917	3,200,323	
3,195,028		128 : 3,207,965	3,223,907	3,215,917	3,204,173	
3,200,312		129 : 3,184,669	3,223,907	3,215,917	3,205,429	
3,214,655		17 : 3,166,697	3,223,907	3,215,917	3,209,234	
3,218,526		18 : 3,183,420	3,223,907	3,215,917	3,209,235	
3,222,581		19 : 3,211,975	3,223,907	3,215,917	3,209,236	
3,226,615		22 : 3,172,025	3,223,907	3,215,917	3,210,645	
247 : 3,192,455		23 : 3,168,689	3,223,907	3,215,917	3,211,988	
248 : 3,188,539		24 : 3,175,140	3,223,907	3,215,917	3,225,284	
3,191,107		25 : 3,167,696	3,223,907	3,215,917	3,204,177	
3,206,659		27 : 3,165,679	3,223,907	3,215,917	3,207,976	
3,213,340		28 : 3,164,759	3,223,907	3,215,917	3,223,921	
3,214,656		29 : 3,179,864	3,223,907	3,215,917	3,223,921	
249 : 3,166,695		30 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,170,099		31 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,172,023		32 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,175,133		33 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,175,134		34 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,175,135		35 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,181,045		36 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,185,904		37 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,193,742		38 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,196,331		39 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,202,889		40 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,202,890		41 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,205,417		42 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,218,527		43 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,219,893		44 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,225,274		45 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,225,275		46 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,226,616		47 : 3,179,864	3,223,907	3,215,917	3,223,921	
250 : 3,166,696		48 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,189,802		49 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,192,456		50 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,212,216		51 : 3,179,864	3,223,907	3,215,917	3,223,921	
251 : 3,175,136		52 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,204,162		53 : 3,179,864	3,223,907	3,215,917	3,223,921	
253 : 3,217,217		54 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,221,224		55 : 3,179,864	3,223,907	3,215,917	3,223,921	
254 : 3,189,803		56 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,204,163		57 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,209,219		58 : 3,179,864	3,223,907	3,215,917	3,223,921	
256 : 3,178,622		59 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,185,905		60 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,221,225		61 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,225,276		62 : 3,179,864	3,223,907	3,215,917	3,223,921	
258 : 3,175,137		63 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,178,623		64 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,179,862		65 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,184,660		66 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,185,906		67 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,185,907		68 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,191,108		69 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,195,030		70 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,201,667		71 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,202,891		72 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,202,892		73 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,213,341		74 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,214,657		75 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,215,909		76 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,218,528		77 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,221,226		78 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,221,227		79 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,221,228		80 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,223,905		81 : 3,179,864	3,223,907	3,215,917	3,223,921	
259 : 3,214,658		82 : 3,179,864	3,223,907	3,215,917	3,223,921	
260 : 3,182,238		83 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,192,457		84 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,195,031		85 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,204,164		86 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,206,660		87 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,206,661		88 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,211,973		89 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,215,910		90 : 3,179,864	3,223,907	3,215,917	3,223,921	
261 : 3,169,216		91 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,177,415		92 : 3,179,864	3,223,907	3,215,917	3,223,921	
3,184,661		93 : 3,179,864	3,223,907	3,215,917	3,223,921	

43.5 : 3,199,017	89 : 3,225,291	34 : 3,166,710	62 : 3,181,061	99 : 3,219,928	38 : 3,179,889	363 : 3,182,262
5 : 3,200,325	3,225,292	3,170,112	3,193,762	3,219,929	3,207,986	3,195,050
5 : 3,202,903	90 : 3,218,545	3,178,638	3,195,044	3,221,252	3,209,259	3,214,692
5 : 3,204,176	93 : 3,206,670	3,185,922	3,195,045	3,226,639	40 : 3,183,442	3,217,258
5 : 3,206,669	3,215,927	3,205,435	3,197,697	3,226,643	41 : 3,183,442	3,217,104
5 : 3,211,990	3,218,546	3,209,243	3,207,980	3,226,651	42 : 3,186,351	3,217,263
5 : 3,215,929	3,217,080	3,214,687	3,210,657	3,226,654	43 : 3,196,351	3,217,263
5 : 3,217,239	3,185,920	3,214,688	3,211,999	3,226,655	44 : 3,205,440	3,217,263
5 : 3,223,919	3,200,329	3,219,922	3,212,000	3,226,656	45 : 3,217,643	3,217,263
5 : 3,226,628	3,205,431	3,209,244	3,212,001	3,226,657	46 : 3,217,643	3,217,263
44 : 3,173,079	3,214,682	3,170,113	3,213,361	105 : 3,179,885	47 : 3,195,047	3,217,263
3,184,674	3,215,928	3,170,114	3,225,297	106 : 3,207,984	48 : 3,213,368	3,217,263
3,214,679	3,226,631	3,185,923	3,225,298	49 : 3,170,117	49 : 3,176,226	3,217,263
3,223,920	97 : 3,193,761	3,189,817	63 : 3,209,248	50 : 3,175,155	50 : 3,196,355	3,217,263
45 : 3,172,030	99 : 3,207,977	3,202,914	3,217,249	51 : 3,182,259	51 : 3,196,355	3,217,263
3,176,214	108 : 3,210,651	3,225,293	65 : 3,192,474	52 : 3,174,102	52 : 3,174,102	3,217,263
3,179,876	120 : 3,189,815	3,167,708	3,197,698	53 : 3,196,353	53 : 3,196,353	3,217,263
3,185,917	122 : 3,211,993	3,173,085	3,197,699	54 : 3,191,122	54 : 3,191,122	3,217,263
3,199,018	3,219,920	3,181,059	3,207,981	55 : 3,210,664	55 : 3,210,664	3,217,263
3,201,683	Class 324 :	3,197,693	3,209,249	56 : 3,195,048	56 : 3,195,048	3,217,263
3,209,239	5 : 3,166,706	3,222,594	3,217,252	111 : 3,164,771	3,209,260	3,217,263
3,213,353	5 : 3,166,706	3,225,294	3,218,552	115 : 3,205,439	3,226,644	3,217,263
46 : 3,182,248	5 : 3,166,707	3,165,691	3,226,636	116 : 3,205,439	3,226,644	3,217,263
47 : 3,182,248	5 : 3,166,707	3,209,245	66 : 3,181,062	117 : 3,205,439	3,226,644	3,217,263
48 : 3,188,552	5 : 3,166,706	3,226,634	68 : 3,181,062	118 : 3,205,439	3,226,644	3,217,263
3,196,345	5 : 3,172,035	3,168,696	119 : 3,212,003	120 : 3,196,348	3,226,644	3,217,263
3,222,590	5 : 3,173,081	3,197,694	121 : 3,212,003	121 : 3,176,223	3,226,644	3,217,263
49 : 3,201,684	5 : 3,173,082	3,202,912	122 : 3,176,223	122 : 3,176,223	3,226,644	3,217,263
50 : 3,184,675	5 : 3,173,083	3,207,978	123 : 3,176,223	123 : 3,176,223	3,226,644	3,217,263
51 : 3,181,055	5 : 3,173,084	3,209,246	124 : 3,176,223	124 : 3,176,223	3,226,644	3,217,263
3,193,757	5 : 3,174,098	3,218,547	125 : 3,176,223	125 : 3,176,223	3,226,644	3,217,263
3,195,039	5 : 3,174,099	3,187,254	126 : 3,176,223	126 : 3,176,223	3,226,644	3,217,263
3,217,240	5 : 3,178,636	3,192,471	127 : 3,176,223	127 : 3,176,223	3,226,644	3,217,263
3,221,246	5 : 3,179,878	3,195,043	128 : 3,176,223	128 : 3,176,223	3,226,644	3,217,263
3,225,289	5 : 3,187,251	3,202,913	129 : 3,176,223	129 : 3,176,223	3,226,644	3,217,263
52 : 3,179,877	5 : 3,188,556	3,213,359	130 : 3,176,223	130 : 3,176,223	3,226,644	3,217,263
3,199,019	5 : 3,188,557	3,223,924	131 : 3,176,223	131 : 3,176,223	3,226,644	3,217,263
56 : 3,172,031	5 : 3,191,118	3,196,346	132 : 3,176,223	132 : 3,176,223	3,226,644	3,217,263
3,204,177	5 : 3,191,119	3,220,910	133 : 3,176,223	133 : 3,176,223	3,226,644	3,217,263
3,207,976	5 : 3,191,119	3,210,658	134 : 3,176,223	134 : 3,176,223	3,226,644	3,217,263
3,223,921	5 : 3,197,692	3,215,932	135 : 3,176,223	135 : 3,176,223	3,226,644	3,217,263
3,226,629	5 : 3,199,021	3,215,932	136 : 3,176,223	136 : 3,176,223	3,226,644	3,217,263
58 : 3,167,704	5 : 3,199,022	3,182,253	137 : 3,176,223	137 : 3,176,223	3,226,644	3,217,263
3,171,079	5 : 3,200,330	3,183,435	138 : 3,176,223	138 : 3,176,223	3,226,644	3,217,263
3,202,904	5 : 3,202,906	3,197,695	139 : 3,176,223	139 : 3,176,223	3,226,644	3,217,263
60 : 3,193,758	5 : 3,204,178	3,205,436	140 : 3,176,223	140 : 3,176,223	3,226,644	3,217,263
3,209,240	5 : 3,205,432	3,214,689	141 : 3,176,223	141 : 3,176,223	3,226,644	3,217,263
3,209,241	5 : 3,206,671	3,217,245	142 : 3,176,223	142 : 3,176,223	3,226,644	3,217,263
3,210,648	5 : 3,209,242	3,217,245	143 : 3,176,223	143 : 3,176,223	3,226,644	3,217,263
61 : 3,219,914	5 : 3,211,994	3,219,923	144 : 3,176,223	144 : 3,176,223	3,226,644	3,217,263
3,222,591	5 : 3,213,354	3,221,648	145 : 3,176,223	145 : 3,176,223	3,226,644	3,217,263
62 : 3,167,705	5 : 3,213,355	3,211,997	146 : 3,176,223	146 : 3,176,223	3,226,644	3,217,263
63 : 3,215,925	5 : 3,213,356	3,178,639	147 : 3,176,223	147 : 3,176,223	3,226,644	3,217,263
66 : 3,166,705	5 : 3,213,357	3,178,640	148 : 3,176,223	148 : 3,176,223	3,226,644	3,217,263
3,172,032	5 : 3,214,683	3,189,818	149 : 3,176,223	149 : 3,176,223	3,226,644	3,217,263
3,172,033	5 : 3,214,684	3,199,023	150 : 3,176,223	150 : 3,176,223	3,226,644	3,217,263
3,183,432	5 : 3,215,930	3,201,686	151 : 3,176,223	151 : 3,176,223	3,226,644	3,217,263
3,184,676	5 : 3,222,593	3,210,655	152 : 3,176,223	152 : 3,176,223	3,226,644	3,217,263
3,193,759	5 : 3,226,632	3,211,998	153 : 3,176,223	153 : 3,176,223	3,226,644	3,217,263
3,195,040	1 : 3,166,706	3,217,246	154 : 3,176,223	154 : 3,176,223	3,226,644	3,217,263
3,223,922	3,167,707	3,217,246	155 : 3,176,223	155 : 3,176,223	3,226,644	3,217,263
3,226,630	3,172,036	3,217,246	156 : 3,176,223	156 : 3,176,223	3,226,644	3,217,263
68 : 3,185,918	3,181,056	3,177,425	157 : 3,176,223	157 : 3,176,223	3,226,644	3,217,263
3,192,469	3,181,057	3,179,880	158 : 3,176,223	158 : 3,176,223	3,226,644	3,217,263
3,215,926	3,182,250	3,182,254	159 : 3,176,223	159 : 3,176,223	3,226,644	3,217,263
69 : 3,188,553	3,188,558	3,187,255	160 : 3,176,223	160 : 3,176,223	3,226,644	3,217,263
3,217,241	3,188,559	3,199,024	161 : 3,176,223	161 : 3,176,223	3,226,644	3,217,263
74 : 3,188,554	3,195,041	3,204,179	162 : 3,176,223	162 : 3,176,223	3,226,644	3,217,263
3,200,326	3,210,652	3,206,672	163 : 3,176,223	163 : 3,176,223	3,226,644	3,217,263
3,202,905	3,217,242	3,206,673	164 : 3,176,223	164 : 3,176,223	3,226,644	3,217,263
3,210,649	3,219,921	3,210,656	165 : 3,176,223	165 : 3,176,223	3,226,644	3,217,263
3,214,680	2 : 3,195,042	3,217,247	166 : 3,176,223	166 : 3,176,223	3,226,644	3,217,263
3,219,915	3 : 3,202,909	3,218,548	167 : 3,176,223	167 : 3,176,223	3,226,644	3,217,263
3,217,034	4 : Re. 25,908	3,219,924	168 : 3,176,223	168 : 3,176,223	3,226,644	3,217,263
3,193,760	6 : 3,166,709	3,222,595	169 : 3,176,223	169 : 3,176,223	3,226,644	3,217,263
3,211,991	3,168,694	3,177,426	170 : 3,176,223	170 : 3,176,223	3,226,644	3,217,263
76 : 3,173,080	3,179,879	3,197,696	171 : 3,176,223	171 : 3,176,223	3,226,644	3,217,263
3,202,906	3,187,252	3,217,248	172 : 3,176,223	172 : 3,176,223	3,226,644	3,217,263
3,205,430	3,214,686	3,218,549	173 : 3,176,223	173 : 3,176,223	3,226,644	3,217,263
3,214,681	3,226,633	3,225,295	174 : 3,176,223	174 : 3,176,223	3,226,644	3,217,263
3,219,917	8 : 3,188,560	3,192,472	175 : 3,176,223	175 : 3,176,223	3,226,644	3,217,263
3,223,923	10 : 3,205,433	3,175,151	176 : 3,176,223	176 : 3,176,223	3,226,644	3,217,263
3,185,919	14 : 3,183,434	3,218,550	177 : 3,176,223	177 : 3,176,223	3,226,644	3,217,263
77 : 3,176,217	15 : 3,175,149	3,176,221	178 : 3,176,223	178 : 3,176,223	3,226,644	3,217,263
78 : 3,176,218	3,177,424	3,176,222	179 : 3,176,223	179 : 3,176,223	3,226,644	3,217,263
85 : 3,182,249	16 : 3,210,653	3,177,427	180 : 3,176,223	180 : 3,176,223	3,226,644	3,217,263
87 : 3,178,635	18 : 3,205,434	3,182,255	181 : 3,176,223	181 : 3,176,223	3,226,644	3,217,263
3,183,433	20 : 3,178,637	3,185,924	182 : 3,176,223	182 : 3,176,223	3,226,644	3,217,263
3,184,677	23 : 3,202,911	3,187,253	183 : 3,176,223	183 : 3,176,223	3,226,644	3,217,263
3,188,555	24 : 3,211,995	3,187,256	184 : 3,176,223	184 : 3,176,223	3,226,644	3,217,263
3,191,117	26 : 3,191,120	3,188,563	185 : 3,176,223	185 : 3,176,223	3,226,644	3,217,263
3,192,470	28 : 3,182,251	3,188,564	186 : 3,176,223	186 : 3,176,223	3,226,644	3,217,263
3,199,020	3,217,243	3,188,565	187 : 3,176,223	187 : 3,176,223	3,226,644	3,217,263
3,200,327	29 : 3,175,150	3,192,473	188 : 3,176,223	188 : 3,176,223	3,226,644	3,217,263
3,200,328	5 : 3,185,921	3,207,979	189 : 3,176,223	189 : 3,176,223	3,226,644	3,217,263
3,202,907	30 : 3,170,111	3,209,247	190 : 3,176,223	190 : 3,176,223	3,226,644	3,217,263
3,210,650	3,172,037	3,213,360	191 : 3,176,223	191 : 3,176,223	3,226,644	3,217,263
3,211,992	3,181,058	3,215,931	192 : 3,176,223	192 : 3,176,223	3,226,644	3,217,263
3,218,544	3,182,252	3,218,551	193 : 3,176,223	193 : 3,176,223	3,226,644	3,217,263
3,219,918	3,188,564	3,219,925	194 : 3,176,223	194 : 3,176,223	3,226,644	3,217,263
3,222,592	3,201,685	3,221,247	195 : 3,176,223	195 : 3,176,223	3,226,644	3,217,263
3,225,290	33 : 3,168,695	3,225,296	196 : 3,176,223	196 : 3,176,223	3,226,644	3,217,263
	3,171,081	3,226,635	197 : 3,176,223	197 : 3,176,223	3,226,644	3,217,263
	3,211,996	3,172,038	198 : 3,176,223	198 : 3,176,223	3,226,644	3,217,263
			199 : 3,176,223	199 : 3,176,223	3,226,644	3,217,263

Class 328—Con.									
55 : 3,196,358	155 : 3,193,770	4 : 3,195,061	19 : 3,199,041	110 : 3,200,346	78 : 3,209,279	113 : 3,196,367	51 : 3,210,692	26 : 3,188,583	84 : 3,218,584
3,201,700	3,206,686	3,199,037	3,201,708	3,210,128	3,222,614	3,197,717	3,221,273	3,195,076	3,218,585
3,209,263	3,213,377	3,210,673	3,223,935	3,217,088	3,178,656	3,201,713	3,226,657	3,217,274	3,187,279
57 : 3,187,260	3,213,377	3,210,674	3,223,936	3,187,268	3,173,103	3,202,938	52 : 3,193,783	28 : 3,181,089	3,188,586
3,189,833	3,189,836	3,210,675	3,216,707	3,199,043	3,226,654	3,210,689	3,205,458	3,195,079	3,200,356
58 : 3,177,433	3,192,479	3,213,382	3,209,273	3,202,928	3,166,721	3,210,690	3,225,317	3,212,029	3,201,723
3,179,893	3,195,055	3,214,701	3,209,274	3,195,067	3,168,712	3,210,691	57 : 3,176,247	30 : 3,167,728	3,201,724
3,184,684	3,212,932	3,214,702	3,210,679	3,177,441	3,212,055	3,215,951	Class 333	3,174,120	3,205,462
3,189,833	3,214,702	3,214,703	3,217,265	3,222,612	3,177,445	3,215,952	1 : 3,179,904	3,174,121	3,218,586
3,192,479	3,214,704	3,214,705	3,217,266	3,222,613	3,209,280	3,217,269	1 : 3,179,904	3,219,954	3,219,954
3,209,264	3,214,706	3,214,706	3,217,267	3,222,614	3,164,781	3,218,576	1 : 3,179,904	96 : 3,188,587	3,219,954
59 : 3,222,603	3,214,707	3,214,707	3,217,268	3,222,615	3,164,782	3,219,946	1 : 3,179,904	97 : 3,181,094	3,219,954
60 : 3,171,082	3,214,708	3,214,708	3,217,269	3,222,616	3,170,122	3,221,270	1 : 3,179,904	3,187,280	3,219,954
3,214,694	3,214,709	3,214,709	3,217,270	3,222,617	3,172,056	3,222,617	1 : 3,179,904	3,210,698	3,219,954
3,167,717	3,214,710	3,214,710	3,217,271	3,222,618	3,172,057	3,222,618	1 : 3,179,904	3,210,699	3,219,954
3,164,685	3,214,711	3,214,711	3,217,272	3,222,619	3,172,058	3,222,619	1 : 3,179,904	3,210,700	3,219,954
62 : 3,168,700	3,214,712	3,214,712	3,217,273	3,222,620	3,172,059	3,222,620	1 : 3,179,904	3,210,701	3,219,954
3,193,768	3,214,713	3,214,713	3,217,274	3,222,621	3,172,060	3,222,621	1 : 3,179,904	3,210,702	3,219,954
63 : 3,189,834	3,214,714	3,214,714	3,217,275	3,222,622	3,172,061	3,222,622	1 : 3,179,904	3,210,703	3,219,954
3,189,835	3,214,715	3,214,715	3,217,276	3,222,623	3,172,062	3,222,623	1 : 3,179,904	3,210,704	3,219,954
3,199,035	3,214,716	3,214,716	3,217,277	3,222,624	3,172,063	3,222,624	1 : 3,179,904	3,210,705	3,219,954
3,200,340	3,214,717	3,214,717	3,217,278	3,222,625	3,172,064	3,222,625	1 : 3,179,904	3,210,706	3,219,954
3,209,265	3,214,718	3,214,718	3,217,279	3,222,626	3,172,065	3,222,626	1 : 3,179,904	3,210,707	3,219,954
3,213,375	3,214,719	3,214,719	3,217,280	3,222,627	3,172,066	3,222,627	1 : 3,179,904	3,210,708	3,219,954
3,214,695	3,214,720	3,214,720	3,217,281	3,222,628	3,172,067	3,222,628	1 : 3,179,904	3,210,709	3,219,954
3,225,301	3,214,721	3,214,721	3,217,282	3,222,629	3,172,068	3,222,629	1 : 3,179,904	3,210,710	3,219,954
3,226,648	3,214,722	3,214,722	3,217,283	3,222,630	3,172,069	3,222,630	1 : 3,179,904	3,210,711	3,219,954
64 : 3,166,716	3,214,723	3,214,723	3,217,284	3,222,631	3,172,070	3,222,631	1 : 3,179,904	3,210,712	3,219,954
65 : 3,181,071	3,214,724	3,214,724	3,217,285	3,222,632	3,172,071	3,222,632	1 : 3,179,904	3,210,713	3,219,954
3,185,928	3,214,725	3,214,725	3,217,286	3,222,633	3,172,072	3,222,633	1 : 3,179,904	3,210,714	3,219,954
67 : 3,166,717	3,214,726	3,214,726	3,217,287	3,222,634	3,172,073	3,222,634	1 : 3,179,904	3,210,715	3,219,954
3,168,701	3,214,727	3,214,727	3,217,288	3,222,635	3,172,074	3,222,635	1 : 3,179,904	3,210,716	3,219,954
3,199,036	3,214,728	3,214,728	3,217,289	3,222,636	3,172,075	3,222,636	1 : 3,179,904	3,210,717	3,219,954
3,202,919	3,214,729	3,214,729	3,217,290	3,222,637	3,172,076	3,222,637	1 : 3,179,904	3,210,718	3,219,954
3,207,994	3,214,730	3,214,730	3,217,291	3,222,638	3,172,077	3,222,638	1 : 3,179,904	3,210,719	3,219,954
3,212,011	3,214,731	3,214,731	3,217,292	3,222,639	3,172,078	3,222,639	1 : 3,179,904	3,210,720	3,219,954
3,214,696	3,214,732	3,214,732	3,217,293	3,222,640	3,172,079	3,222,640	1 : 3,179,904	3,210,721	3,219,954
3,214,697	3,214,733	3,214,733	3,217,294	3,222,641	3,172,080	3,222,641	1 : 3,179,904	3,210,722	3,219,954
69 : 3,184,686	3,214,734	3,214,734	3,217,295	3,222,642	3,172,081	3,222,642	1 : 3,179,904	3,210,723	3,219,954
3,219,936	3,214,735	3,214,735	3,217,296	3,222,643	3,172,082	3,222,643	1 : 3,179,904	3,210,724	3,219,954
3,221,257	3,214,736	3,214,736	3,217,297	3,222,644	3,172,083	3,222,644	1 : 3,179,904	3,210,725	3,219,954
70 : 3,174,107	3,214,737	3,214,737	3,217,298	3,222,645	3,172,084	3,222,645	1 : 3,179,904	3,210,726	3,219,954
71 : 3,172,045	3,214,738	3,214,738	3,217,299	3,222,646	3,172,085	3,222,646	1 : 3,179,904	3,210,727	3,219,954
3,226,649	3,214,739	3,214,739	3,217,300	3,222,647	3,172,086	3,222,647	1 : 3,179,904	3,210,728	3,219,954
75 : 3,165,702	3,214,740	3,214,740	3,217,301	3,222,648	3,172,087	3,222,648	1 : 3,179,904	3,210,729	3,219,954
3,182,264	3,214,741	3,214,741	3,217,302	3,222,649	3,172,088	3,222,649	1 : 3,179,904	3,210,730	3,219,954
76 : 3,174,108	3,214,742	3,214,742	3,217,303	3,222,650	3,172,089	3,222,650	1 : 3,179,904	3,210,731	3,219,954
84 : 3,215,478	3,214,743	3,214,743	3,217,304	3,222,651	3,172,090	3,222,651	1 : 3,179,904	3,210,732	3,219,954
91 : 3,192,480	3,214,744	3,214,744	3,217,305	3,222,652	3,172,091	3,222,652	1 : 3,179,904	3,210,733	3,219,954
92 : 3,176,233	3,214,745	3,214,745	3,217,306	3,222,653	3,172,092	3,222,653	1 : 3,179,904	3,210,734	3,219,954
94 : 3,201,701	3,214,746	3,214,746	3,217,307	3,222,654	3,172,093	3,222,654	1 : 3,179,904	3,210,735	3,219,954
95 : 3,223,930	3,214,747	3,214,747	3,217,308	3,222,655	3,172,094	3,222,655	1 : 3,179,904	3,210,736	3,219,954
97 : 3,206,683	3,214,748	3,214,748	3,217,309	3,222,656	3,172,095	3,222,656	1 : 3,179,904	3,210,737	3,219,954
98 : 3,164,775	3,214,749	3,214,749	3,217,310	3,222,657	3,172,096	3,222,657	1 : 3,179,904	3,210,738	3,219,954
101 : 3,210,668	3,214,750	3,214,750	3,217,311	3,222,658	3,172,097	3,222,658	1 : 3,179,904	3,210,739	3,219,954
103 : 3,173,094	3,214,751	3,214,751	3,217,312	3,222,659	3,172,098	3,222,659	1 : 3,179,904	3,210,740	3,219,954
105 : 3,204,187	3,214,752	3,214,752	3,217,313	3,222,660	3,172,099	3,222,660	1 : 3,179,904	3,210,741	3,219,954
109 : 3,175,158	3,214,753	3,214,753	3,217,314	3,222,661	3,172,100	3,222,661	1 : 3,179,904	3,210,742	3,219,954
110 : 3,187,261	3,214,754	3,214,754	3,217,315	3,222,662	3,172,101	3,222,662	1 : 3,179,904	3,210,743	3,219,954
3,206,684	3,214,755	3,214,755	3,217,316	3,222,663	3,172,102	3,222,663	1 : 3,179,904	3,210,744	3,219,954
111 : 3,204,188	3,214,756	3,214,756	3,217,317	3,222,664	3,172,103	3,222,664	1 : 3,179,904	3,210,745	3,219,954
116 : 3,164,776	3,214,757	3,214,757	3,217,318	3,222,665	3,172,104	3,222,665	1 : 3,179,904	3,210,746	3,219,954
120 : 3,204,189	3,214,758	3,214,758	3,217,319	3,222,666	3,172,105	3,222,666	1 : 3,179,904	3,210,747	3,219,954
121 : 3,218,561	3,214,759	3,214,759	3,217,320	3,222,667	3,172,106	3,222,667	1 : 3,179,904	3,210,748	3,219,954
3,222,604	3,214,760	3,214,760	3,217,321	3,222,668	3,172,107	3,222,668	1 : 3,179,904	3,210,749	3,219,954
127 : 3,165,703	3,214,761	3,214,761	3,217,322	3,222,669	3,172,108	3,222,669	1 : 3,179,904	3,210,750	3,219,954
3,167,718	3,214,762	3,214,762	3,217,323	3,222,670	3,172,109	3,222,670	1 : 3,179,904	3,210,751	3,219,954
3,174,109	3,214,763	3,214,763	3,217,324	3,222,671	3,172,110	3,222,671	1 : 3,179,904	3,210,752	3,219,954
3,201,702	3,214,764	3,214,764	3,217,325	3,222,672	3,172,111	3,222,672	1 : 3,179,904	3,210,753	3,219,954
3,213,376	3,214,765	3,214,765	3,217,326	3,222,673	3,172,112	3,222,673	1 : 3,179,904	3,210,754	3,219,954
3,219,937	3,214,766	3,214,766	3,217,327	3,222,674	3,172,113	3,222,674	1 : 3,179,904	3,210,755	3,219,954
132 : 3,209,266	3,214,767	3,214,767	3,217,328	3,222,675	3,172,114	3,222,675	1 : 3,179,904	3,210,756	3,219,954
133 : Re. 25,743	3,214,768	3,214,768	3,217,329	3,222,676	3,172,115	3,222,676	1 : 3,179,904	3,210,757	3,219,954
3,181,072	3,214,769	3,214,769	3,217,330	3,222,677	3,172,116	3,222,677	1 : 3,179,904	3,210,758	3,219,954
3,185,929	3,214,770	3,214,770	3,217,331	3,222,678	3,172,117	3,222,678	1 : 3,179,904	3,210,759	3,219,954
3,187,262	3,214,771	3,214,771	3,217,332	3,222,679	3,172,118	3,222,679	1 : 3,179,904	3,210,760	3,219,954
3,193,769	3,214,772	3,214,772	3,217,333	3,222,680	3,172,119	3,222,680	1 : 3,179,904	3,210,761	3,219,954
3,207,995	3,214,773	3,214,773	3,217,334	3,222,681	3,172,120	3,222,681	1 : 3,179,904	3,210,762	3,219,954
3,212,012	3,214,774	3,214,774	3,217,335	3,222,682	3,172,121	3,222,682	1 : 3,179,904	3,210,763	3,219,954
3,212,013	3,214,775	3,214,775	3,217,336	3,222,683	3,172,122	3,222,683	1 : 3,179,904	3,210,764	3,219,954
3,219,938	3,214,776	3,214,776	3,217,337	3,222,684					

Class 339—Con.	180 : 3,170,750	270 : 3,181,113	15.5 : 3,209,320	52 : 3,210,727	146.3 : 3,181,119	164 : 3,201,756
93 : 3,208,031	184 : 3,177,461	272 : 3,187,299	5 : 3,209,321	3,214,730	3 : 3,181,120	3,202,966
94 : 3,181,105	186 : 3,177,462	275 : 3,187,299	5 : 3,209,322	3,222,639	3 : 3,182,290	3,213,425
3,187,292	3,177,462	3,203,312	5 : 3,213,411	53 : 3,222,640	3 : 3,182,291	3,226,679
3,223,959	3,177,462	3,212,294	5 : 3,213,412	58 : 3,178,686	3 : 3,184,712	3,174,134
95 : 3,177,456	3,177,462	3,172,719	5 : 3,213,413	3,181,118	3 : 3,185,962	3,176,273
3,181,106	3,184,707	3,172,719	5 : 3,219,971	3,185,960	3 : 3,187,304	3,183,486
3,182,281	3,206,714	3,172,719	5 : 3,221,297	3,215,978	3 : 3,187,305	3,183,487
3,183,471	3,183,474	3,172,719	5 : 3,221,298	3,222,641	3 : 3,187,306	3,184,715
3,204,214	3,170,751	3,183,475	5 : 3,223,966	3,222,642	3 : 3,188,610	3,191,151
3,206,710	3,183,475	3,181,114	5 : 3,223,967	3,223,969	3 : 3,188,611	3,205,481
3,210,719	3,214,726	3,199,069	5 : 3,217,289	3,223,970	3 : 3,189,873	3,206,729
3,214,722	3,177,463	3,202,960	5 : 3,217,290	59 : 3,179,919	3 : 3,191,149	3,208,043
97 : 3,171,705	3,195,100	3,209,313	17 : 3,172,078	3,179,920	3 : 3,191,150	3,208,044
3,177,457	3,178,671	3,223,964	3,188,607	60 : 3,196,389	3 : 3,192,504	3,210,731
3,181,107	3,193,794	3,191,141	3,191,141	61 : 3,219,972	3 : 3,192,505	3,223,978
3,182,282	3,206,715	3,183,477	3,191,142	62 : 3,226,675	3 : 3,193,799	3,225,331
3,183,472	3,213,407	3,183,478	3,191,143	63 : 3,209,326	3 : 3,196,392	3,210,736
3,184,704	3,225,324	3,206,719	3,191,144	65 : 3,197,734	3 : 3,196,393	3,212,066
3,191,139	3,206,716	3,213,409	3,199,072	66 : 3,215,979	3 : 3,196,394	3,213,429
3,197,729	3,208,034	3,226,670	3,210,725	67 : 3,213,417	3 : 3,196,395	3,215,988
3,201,744	3,177,464	3,164,799	3,212,057	69 : 3,171,096	3 : 3,196,396	3,215,989
3,213,404	3,165,372	3,167,738	3,213,414	70 : 3,214,731	3 : 3,196,397	3,215,990
3,214,713	3,167,376	3,174,127	3,213,415	72 : 3,164,803	3 : 3,196,398	3,215,991
3,218,602	3,171,708	3,174,128	3,222,636	74 : 3,188,608	3 : 3,196,399	3,215,992
98 : 3,202,957	3,172,720	3,172,720	3,225,327	76 : 3,206,723	3 : 3,197,735	3,215,993
99 : 3,167,375	3,173,738	3,178,678	3,225,328	78 : 3,214,732	3 : 3,197,736	3,215,994
3,177,458	3,178,679	3,178,679	3,225,329	81 : 3,165,716	3 : 3,199,078	3,215,995
3,189,863	3,181,109	3,195,101	3,170,136	83 : 3,182,289	3 : 3,199,079	3,215,996
3,200,364	3,188,603	3,195,102	3,204,220	84 : 3,200,371	3 : 3,199,080	3,215,997
3,201,745	3,188,604	3,195,103	3,177,467	87 : 3,175,186	3 : 3,200,373	3,215,998
3,206,711	3,196,383	3,196,383	3,181,117	88 : 3,213,419	3 : 3,201,751	3,215,999
3,206,712	3,199,068	3,212,053	3,182,285	89 : 3,213,418	3 : 3,201,752	3,215,100
3,214,723	3,200,367	3,212,054	3,182,286	90 : 3,213,419	3 : 3,201,753	3,215,101
3,214,724	3,201,747	3,212,055	3,187,301	91 : 3,213,420	3 : 3,201,754	3,215,102
3,217,286	3,202,958	3,214,727	3,191,145	92 : 3,213,421	3 : 3,201,755	3,215,103
100 : 3,196,379	3,209,309	3,215,976	3,195,105	93 : 3,213,422	3 : 3,201,756	3,215,104
3,199,061	3,212,051	3,222,634	3,205,477	94 : 3,213,423	3 : 3,201,757	3,215,105
102 : 3,197,730	3,215,973	3,223,965	3,209,323	95 : 3,213,424	3 : 3,201,758	3,215,106
103 : 3,187,293	3,218,604	3,225,325	3,223,966	96 : 3,213,425	3 : 3,201,759	3,215,107
3,195,098	3,226,669	3,172,076	3,225,326	97 : 3,213,426	3 : 3,201,760	3,215,108
3,200,365	3,206,717	3,184,708	3,179,917	98 : 3,213,427	3 : 3,201,761	3,215,109
3,204,215	3,173,739	3,214,728	3,192,502	99 : 3,213,428	3 : 3,201,762	3,215,110
3,209,306	3,188,605	3,164,800	3,226,672	100 : 3,213,429	3 : 3,201,763	3,215,111
107 : 3,170,749	3,221,291	3,171,095	3,171,095	101 : 3,213,430	3 : 3,201,764	3,215,112
108 : 3,201,746	3,170,752	3,174,129	3,183,482	102 : 3,213,431	3 : 3,201,765	3,215,113
109 : 3,177,459	3,172,721	3,177,465	3,204,218	103 : 3,213,432	3 : 3,201,766	3,215,114
3,188,602	3,181,115	3,182,287	3,184,710	104 : 3,213,433	3 : 3,201,767	3,215,115
3,199,062	3,178,673	3,181,116	3,183,479	105 : 3,213,434	3 : 3,201,768	3,215,116
3,209,307	3,178,674	3,195,104	3,191,146	106 : 3,213,435	3 : 3,201,769	3,215,117
110 : 3,169,816	3,187,296	3,199,070	3,189,872	107 : 3,213,436	3 : 3,201,770	3,215,118
113 : 3,195,099	3,187,297	3,209,314	3,176,264	108 : 3,213,437	3 : 3,201,771	3,215,119
119 : 3,177,460	3,193,795	3,210,723	3,176,265	109 : 3,213,438	3 : 3,201,772	3,215,120
123 : 3,199,063	3,202,959	3,213,410	3,183,480	110 : 3,213,439	3 : 3,201,773	3,215,121
126 : 3,179,915	3,206,718	3,218,607	3,191,147	111 : 3,213,440	3 : 3,201,774	3,215,122
3,187,294	3,209,310	3,221,295	3,192,503	112 : 3,213,441	3 : 3,201,775	3,215,123
3,196,380	3,212,052	3,226,671	3,201,748	113 : 3,213,442	3 : 3,201,776	3,215,124
128 : 3,176,260	3,218,605	3,170,135	3,213,416	114 : 3,213,443	3 : 3,201,777	3,215,125
129 : 3,196,381	3,221,292	3,177,466	3,202,963	115 : 3,213,444	3 : 3,201,778	3,215,126
130 : 3,200,366	3,213,408	3,178,680	3,212,291	116 : 3,213,445	3 : 3,201,779	3,215,127
134 : 3,199,064	3,168,366	3,182,283	3,217,291	117 : 3,213,446	3 : 3,201,780	3,215,128
143 : 3,171,706	3,208,035	3,185,956	3,193,798	118 : 3,213,447	3 : 3,201,781	3,215,129
3,183,473	3,223,960	3,202,961	3,196,386	119 : 3,213,448	3 : 3,201,782	3,215,130
144 : 3,173,735	3,211,110	3,205,475	3,226,673	120 : 3,213,449	3 : 3,201,783	3,215,131
3,175,180	3,223,961	3,209,315	3,217,287	121 : 3,213,450	3 : 3,201,784	3,215,132
3,206,713	3,189,867	3,217,287	3,217,287	122 : 3,213,451	3 : 3,201,785	3,215,133
145 : 3,219,965	3,193,796	3,189,870	3,217,288	123 : 3,213,452	3 : 3,201,786	3,215,134
149 : 3,187,295	3,205,472	3,219,968	3,217,289	124 : 3,213,453	3 : 3,201,787	3,215,135
3,199,065	3,204,216	3,205,476	3,217,290	125 : 3,213,454	3 : 3,201,788	3,215,136
3,210,720	3,219,967	3,208,037	3,217,291	126 : 3,213,455	3 : 3,201,789	3,215,137
151 : 3,214,725	3,215,974	3,219,969	3,206,721	127 : 3,213,456	3 : 3,201,790	3,215,138
154 : 3,165,371	3,219,970	3,219,970	3,208,038	128 : 3,213,457	3 : 3,201,791	3,215,139
3,213,405	3,210,721	3,225,326	3,208,039	129 : 3,213,458	3 : 3,201,792	3,215,140
157 : 3,219,963	3,181,111	3,182,284	3,221,299	130 : 3,213,459	3 : 3,201,793	3,215,141
174 : 3,179,916	3,173,741	3,212,056	3,212,056	131 : 3,213,460	3 : 3,201,794	3,215,142
3,225,323	3,166,730	3,178,675	3,166,730	132 : 3,213,461	3 : 3,201,795	3,215,143
3,172,717	3,191,140	3,178,681	3,178,681	133 : 3,213,462	3 : 3,201,796	3,215,144
3,172,718	3,205,473	3,187,300	3,187,300	134 : 3,213,463	3 : 3,201,797	3,215,145
3,173,736	3,166,373	3,199,071	3,199,071	135 : 3,213,464	3 : 3,201,798	3,215,146
3,173,737	3,205,473	3,187,300	3,187,300	136 : 3,213,465	3 : 3,201,799	3,215,147
3,176,261	3,178,676	3,202,962	3,202,962	137 : 3,213,466	3 : 3,201,800	3,215,148
3,184,705	3,181,112	3,215,977	3,215,977	138 : 3,213,467	3 : 3,201,801	3,215,149
3,189,864	3,189,868	3,217,288	3,217,288	139 : 3,213,468	3 : 3,201,802	3,215,150
3,189,865	3,221,293	3,221,296	3,221,296	140 : 3,213,469	3 : 3,201,803	3,215,151
3,193,791	3,205,474	3,210,724	3,210,724	141 : 3,213,470	3 : 3,201,804	3,215,152
3,193,792	3,169,817	3,170,753	3,170,753	142 : 3,213,471	3 : 3,201,805	3,215,153
3,193,793	3,170,753	3,188,606	3,188,606	143 : 3,213,472	3 : 3,201,806	3,215,154
3,197,731	3,196,384	3,222,637	3,222,637	144 : 3,213,473	3 : 3,201,807	3,215,155
3,199,066	3,210,722	3,222,635	3,222,635	145 : 3,213,474	3 : 3,201,808	3,215,156
3,199,067	3,215,975	3,215,975	3,215,975	146 : 3,213,475	3 : 3,201,809	3,215,157
3,205,471	3,218,606	3,215,975	3,215,975	147 : 3,213,476	3 : 3,201,810	3,215,158
3,208,032	3,222,632	3,215,975	3,215,975	148 : 3,213,477	3 : 3,201,811	3,215,159
3,209,308	3,223,962	3,215,975	3,215,975	149 : 3,213,478	3 : 3,201,812	3,215,160
3,218,603	3,217,298	3,215,975	3,215,975	150 : 3,213,479	3 : 3,201,813	3,215,161
3,219,966	3,217,298	3,215,975	3,215,975	151 : 3,213,480	3 : 3,201,814	3,215,162
3,221,288	3,217,298	3,215,975	3,215,975	152 : 3,213,481	3 : 3,201,815	3,215,163
3,221,289	3,217,298	3,215,975	3,215,975	153 : 3,213,482	3 : 3,201,816	3,215,164
177 : 3,171,707	3,222,633	3,215,975	3,215,975	154 : 3,213,483	3 : 3,201,817	3,215,165
3,184,706	3,222,633	3,215,975	3,215,975	155 : 3,213,484	3 : 3,201,818	3,215,166
3,196,382	3,222,633	3,215,975	3,215,975	156 : 3,213,485	3 : 3,201,819	3,215,167
3,208,033	3,222,633	3,215,975	3,215,975	157 : 3,213,486	3 : 3,201,820	3,215,168
3,212,050	3,222,633	3,215,975	3,215,975	158 : 3,213,487	3 : 3,201,821	3,215,169
3,221,290	3,222,633	3,215,975	3,215,975	159 : 3,213,488	3 : 3,201,822	3,215,170

172.5 : 3,202,971	173 : 3,195,112	174 : 3,182,297	174 : 3,219,984	174.1 : 3,209,340	237 : 3,209,343	321 : 3,172,094
.5 : 3,202,972	3,195,113	3,183,492	3,219,985	.1 : 3,212,074	3,221,320	3,221,320
.5 : 3,205,483	3,196,405	3,183,493	3,219,986	.1 : 3,212,075	3,222,662	3,197,757
.5 : 3,208,046	3,196,406	3,184,718	3,219,987	.1 : 3,212,076	3,223,703	3,202,979
.5 : 3,208,047	3,199,086	3,184,719	3,221,310	.1 : 3,213,437	239 : 3,193,816	3,205,487
.5 : 3,208,048	3,199,087	3,184,720	3,221,311	.1 : 3,214,746	3,201,772	323 : 3,189,888
.5 : 3,208,049	3,201,763	3,184,721	3,221,312	.1 : 3,215,995	3,209,344	3,193,818
.5 : 3,208,050	3,201,764	3,184,722	3,221,313	.1 : 3,217,302	3,225,340	324 : 3,164,822
.5 : 3,208,051	3,202,973	3,185,969	3,222,656	.1 : 3,217,303	241 : 3,167,753	3,164,823
.5 : 3,209,329	3,205,484	3,187,311	3,222,657	.1 : 3,217,304	242 : 3,170,152	3,165,728
.5 : 3,209,330	3,206,730	3,187,312	3,222,658	.1 : 3,217,305	3,192,516	3,165,729
.5 : 3,209,331	3,212,065	3,188,612	3,223,983	.1 : 3,218,618	3,200,388	3,169,240
.5 : 3,209,332	3,212,066	3,188,613	3,223,984	.1 : 3,218,619	3,217,309	3,172,095
.5 : 3,210,732	3,213,429	3,189,879	3,223,985	.1 : 3,218,620	244 : 3,200,389	3,174,144
.5 : 3,210,733	3,215,988	3,191,161	3,223,986	.1 : 3,219,988	3,204,230	3,175,206
.5 : 3,210,734	3,215,989	3,191,162	3,223,987	.1 : 3,219,989	3,213,438	3,179,931
.5 : 3,210,735	3,218,613	3,191,163	3,225,336	.1 : 3,219,990	3,213,439	3,188,621
.5 : 3,210,736	3,219,983	3,192,510	3,226,698	.1 : 3,221,314	248 : 3,178,697	3,188,622
.5 : 3,210,737	3,222,654	3,192,511	3,226,699	.1 : 3,221,315	3,178,698	3,189,889
.5 : 3,210,738	3,225,335	3,192,512	.1 : Re.25,809	.1 : 3,222,659	3,184,729	3,199,097
.5 : 3,212,060	3,226,695	3,193,806	.1 : 3,164,815	.1 : 3,223,988	3,200,390	3,199,098
.5 : 3,212,061	3,226,696	3,193,807	.1 : 3,164,817	.1 : 3,225,337	3,201,773	3,200,394
.5 : 3,212,062	3,226,697	3,193,808	.1 : 3,164,818	.1 : 3,225,338	3,210,749	3,202,980
.5 : 3,212,063	.1 : 3,164,806	3,193,809	.1 : 3,166,740	.1 : 3,226,700	3,217,310	3,205,488
.5 : 3,212,064	.1 : 3,166,738	3,195,114	.1 : 3,167,751	.1 : 3,226,701	249 : 3,217,311	3,213,440
.5 : 3,213,426	.1 : 3,166,739	3,195,115	.1 : 3,167,752	180 : 3,221,316	250 : 3,165,725	3,213,441
.5 : 3,213,427	.1 : 3,167,748	3,195,116	.1 : 3,170,148	181 : 3,208,059	252 : 3,168,728	3,218,625
.5 : 3,213,428	.1 : 3,168,727	3,195,117	.1 : 3,170,149	3,217,306	3,169,239	3,219,993
.5 : 3,214,736	.1 : 3,170,144	3,196,413	.1 : 3,171,104	187 : 3,169,238	3,171,111	3,222,666
.5 : 3,214,737	.1 : 3,170,145	3,196,414	.1 : 3,171,105	3,178,695	3,200,391	3,222,667
.5 : 3,214,738	.1 : 3,172,084	3,196,415	.1 : 3,171,106	188 : 3,217,307	3,202,977	3,223,990
.5 : 3,214,739	.1 : 3,172,085	3,196,416	.1 : 3,171,107	195 : 3,172,092	253 : 3,167,754	3,225,342
.5 : 3,215,985	.1 : 3,172,086	3,196,417	.1 : 3,172,091	196 : 3,176,282	3,171,112	3,226,706
.5 : 3,215,986	.1 : 3,175,197	3,196,418	.1 : 3,172,091	3,183,496	3,172,093	3,226,707
.5 : 3,215,987	.1 : 3,175,198	3,197,745	.1 : 3,173,134	3,195,120	3,177,480	331 : 3,181,135
.5 : 3,217,298	.1 : 3,179,925	3,197,746	.1 : 3,173,135	3,204,229	3,183,498	3,188,623
.5 : 3,218,611	.1 : 3,181,126	3,197,747	.1 : 3,174,140	3,205,485	3,197,755	3,225,343
.5 : 3,218,612	.1 : 3,182,293	3,197,748	.1 : 3,174,141	3,209,341	3,200,392	334 : 3,166,742
.5 : 3,219,976	.1 : 3,182,294	3,197,749	.1 : 3,174,142	3,217,308	3,204,231	3,175,209
.5 : 3,219,977	.1 : 3,183,491	3,199,088	.1 : 3,175,204	3,226,702	3,210,750	3,217,312
.5 : 3,219,978	.1 : 3,184,717	3,199,089	.1 : 3,175,205	197 : 3,170,150	3,215,996	3,217,313
.5 : 3,219,979	.1 : 3,191,159	3,199,090	.1 : 3,176,278	198 : 3,225,339	3,215,997	336 : 3,187,320
.5 : 3,219,980	.1 : 3,191,160	3,200,381	.1 : 3,176,279	199 : 3,178,696	3,217,113	3,204,234
.5 : 3,219,981	.1 : 3,196,407	3,200,382	.1 : 3,176,280	3,185,973	3,176,285	337 : 3,178,699
.5 : 3,219,982	.1 : 3,196,408	3,200,383	.1 : 3,176,281	3,210,746	3,218,622	345 : 3,176,287
.5 : 3,221,306	.1 : 3,196,409	3,201,766	.1 : 3,177,475	3,222,660	3,222,663	3,187,321
.5 : 3,221,307	.1 : 3,196,410	3,201,767	.1 : 3,177,476	200 : 3,212,077	3,210,751	3,201,777
.5 : 3,221,308	.1 : 3,196,411	3,201,768	.1 : 3,179,929	201 : 3,187,337	3,168,729	347 : 3,164,824
.5 : 3,221,309	.1 : 3,196,412	3,204,223	.1 : 3,181,133	3,193,813	3,183,499	3,164,825
.5 : 3,222,647	.1 : 3,201,765	3,204,224	.1 : 3,182,298	204 : 3,187,318	3,184,730	3,164,826
.5 : 3,222,648	.1 : 3,210,739	3,204,225	.1 : 3,182,299	206 : 3,177,477	3,189,884	3,165,730
.5 : 3,222,649	.1 : 3,222,655	3,204,226	.1 : 3,182,300	3,189,881	3,189,885	3,165,731
.5 : 3,222,650	.2 : 3,179,926	3,204,227	.1 : 3,183,494	3,197,752	3,199,096	3,165,732
.5 : 3,222,651	.2 : 3,193,805	3,206,731	.1 : 3,183,495	3,210,747	3,201,774	3,166,744
.5 : 3,222,652	.2 : 3,197,744	3,206,732	.1 : 3,184,723	207 : 3,197,753	3,201,775	3,166,743
.5 : 3,222,653	.2 : 3,215,990	3,206,733	.1 : 3,184,724	209 : 3,177,478	3,210,752	3,176,751
.5 : 3,223,979	.174 : 3,164,810	3,206,734	.1 : 3,185,970	212 : 3,164,819	3,218,623	3,167,752
.5 : 3,223,980	3,164,811	3,206,735	.1 : 3,185,971	213 : 3,166,741	3,222,664	3,167,753
.5 : 3,223,981	3,164,812	3,206,736	.1 : 3,185,972	3,170,151	259 : 3,165,726	3,167,754
.5 : 3,223,982	3,164,813	3,208,052	.1 : 3,187,313	3,174,143	3,182,301	3,170,153
.5 : 3,223,983	3,164,814	3,208,053	.1 : 3,187,314	3,176,283	3,188,619	3,170,154
.5 : 3,223,984	3,164,815	3,208,054	.1 : 3,187,315	3,176,284	3,219,992	3,170,155
.5 : 3,225,333	3,165,722	3,209,333	.1 : 3,187,316	3,179,930	261 : 3,167,755	3,171,117
.5 : 3,225,334	3,165,723	3,209,334	.1 : 3,187,317	3,183,497	3,201,776	3,172,096
.5 : 3,226,681	3,167,749	3,209,335	.1 : 3,188,614	3,184,725	3,204,232	3,172,097
.5 : 3,226,682	3,167,750	3,209,336	.1 : 3,188,615	3,188,617	3,221,321	3,172,098
.5 : 3,226,683	3,170,146	3,209,337	.1 : 3,188,616	3,189,882	3,225,341	3,174,143
.5 : 3,226,684	3,171,101	3,210,740	.1 : 3,189,880	3,196,423	3,197,756	262 : 3,175,210
.5 : 3,226,685	3,171,102	3,210,741	.1 : 3,191,164	3,197,754	3,226,704	3,175,211
.5 : 3,226,686	3,171,103	3,210,742	.1 : 3,191,165	3,202,976	3,188,620	263 : 3,177,482
.5 : 3,226,687	3,171,104	3,210,743	.1 : 3,191,166	3,205,486	3,185,976	266 : 3,178,700
.5 : 3,226,688	3,172,087	3,210,744	.1 : 3,192,513	3,209,342	3,223,989	3,178,701
.5 : 3,226,689	3,172,088	3,210,745	.1 : 3,192,514	3,212,078	267 : 3,171,114	3,181,131
.5 : 3,226,690	3,172,089	3,212,067	.1 : 3,192,515	.1 : 3,212,079	269 : 3,183,500	3,181,132
.5 : 3,226,691	3,173,131	3,212,068	.1 : 3,193,810	.2 : 3,165,724	271 : 3,189,886	3,182,300
.5 : 3,226,692	3,173,132	3,212,069	.1 : 3,193,811	.2 : 3,218,621	273 : 3,226,705	3,182,301
.5 : 3,226,693	3,173,133	3,212,070	.1 : 3,193,812	.2 : 3,219,991	274 : 3,165,727	3,182,302
.5 : 3,226,694	3,174,137	3,212,071	.1 : 3,195,118	214 : 3,175,206	3,171,115	3,182,303
173 : 3,164,809	3,174,138	3,212,072	.1 : 3,195,119	3,177,479	3,175,207	3,182,304
3,165,721	3,174,139	3,212,073	.1 : 3,196,419	3,189,883	276 : 3,192,517	3,183,501
3,168,726	3,175,185	3,212,074	.1 : 3,196,420	3,208,060	3,200,393	3,184,733
3,171,100	3,175,199	3,213,430	.1 : 3,196,421	220 : 3,221,317	279 : 3,208,062	3,184,734
3,172,083	3,175,200	3,213,431	.1 : 3,196,422	222 : 3,221,318	3,177,481	3,184,735
3,173,130	3,175,201	3,213,432	.1 : 3,197,750	223 : 3,184,726	280 : 3,192,518	3,185,977
3,175,194	3,175,202	3,213,433	.1 : 3,197,751	3,193,814	3,193,819	3,187,322
3,175,195	3,175,203	3,213,434	.1 : 3,199,091	224 : 3,208,061	3,196,424	3,187,323
3,175,196	3,176,276	3,213,435	.1 : 3,199,092	226 : 3,171,108	281 : 3,171,116	3,187,324
3,176,275	3,176,277	3,214,740	.1 : 3,199,093	227 : 3,171,109	3,222,665	3,187,325
3,179,924	3,177,473	3,214,741	.1 : 3,199,094	3,184,727	282 : 3,176,286	3,188,626
3,181,125	3,177,474	3,214,742	.1 : 3,200,384	3,188,618	3,204,233	3,188,627
3,183,490	3,178,691	3,214,743	.1 : 3,200,385	3,201,771	3,218,624	3,188,628
3,185,967	3,178,692	3,214,744	.1 : 3,200,386	3,210,748	286 : 3,202,978	3,188,629
3,185,968	3,178,693	3,214,745	.1 : 3,201,769	3,222,661	3,212,080	3,189,890
3,187,308	3,178,694	3,215,991	.1 : 3,201,770	228 : 3,195,121	3,214,747	3,189,891
3,187,309	3,179,927	3,215,992	.1 : 3,202,974	229 : 3,221,319	3,215,998	3,189,892
3,187,310	3,179,928	3,215,993	.1 : 3,202,975	233 : 3,171,110	295 : 3,214,748	3,189,893
3,189,876	3,181,127	3,215,994	.1 : 3,202,976	3,184,728	296 : 3,183,501	3,189,894
3,189,877	3,181,128	3,217,299	.1 : 3,202,977	3,185,974	309.1 : 3,187,319	3,191,101
3,189,878	3,181,129	3,217,300	.1 : 3,202,978	234 : 3,164,820	.1 : 3,196,425	3,191,102
3,191,157	3,181,130	3,217,301	.1 : 3,202,979	235 : 3,199,095	4 : 3,215,999	3,192,515
3,191,158	3,181,131	3,218,614	.1 : 3,202,980	236 : 3,164,821	310 : 3,189,887	3,192,516
3,193,803	3,181,132	3,218,615	.1 : 3,202,981	3,193,815	315 : 3,184,731	3,193,819
3,193,804	3,182,295	3,218,616	.1 : 3,202,982	237 : 3,185,975	316 : 3,221,322	3,193,820
3,195,110	3,182,296	3,218,617	.1 : 3,202,983	3,200,387		

Class 340 - Con.		348 : 3,197,765	6.8 : 3,171,123	9 : 3,193,825	17.2 : 3,176,296	112 : 3,167,772	767 : 3,172,112
347 : 3,195,122	350 : 3,185,978	3,218,634	8 : 3,176,291	3,197,773	2 : 3,183,506	3,171,126	3,176,300
3,195,123	351 : 3,225,348	3,202,986	8 : 3,178,706	3,202,987	2 : 3,188,637	3,171,127	3,175,218
3,195,124	352 : 3,204,236	3,202,985	8 : 3,184,737	3,212,085	2 : 3,191,174	3,172,108	3,204,242
3,196,426	353 : 3,226,711	3,213,448	8 : 3,226,714	3,222,674	2 : 3,196,437	3,177,490	3,218,644
3,196,427	354 : 3,218,635	3,222,674	7 : 3,164,828	3,222,674	2 : 3,199,106	3,179,939	3,164,834
3,196,428	355 : 3,172,099	3,222,674	3,167,760	3,222,674	2 : 3,202,989	3,182,328	3,172,113
3,196,429	356 : 3,206,742	3,222,674	3,167,761	3,222,674	2 : 3,205,496	3,191,176	3,183,511
3,196,430	357 : 3,206,743	3,222,674	3,176,292	3,222,674	2 : 3,213,452	3,195,136	3,189,908
3,196,431	358 : 3,216,008	3,222,674	3,176,293	3,222,674	2 : 3,216,013	3,201,793	3,193,830
3,197,758	359 : 3,226,712	3,222,674	3,176,294	3,222,674	2 : 3,220,003	3,204,241	3,220,007
3,197,759	360 : 3,169,241	3,222,674	3,177,484	3,222,674	2 : 3,181,156	3,209,357	3,224,004
3,197,760	361 : 3,178,702	3,222,674	3,178,707	3,222,674	2 : 3,193,827	3,212,091	3,224,005
3,197,761	362 : 3,178,703	3,222,674	3,181,144	3,222,674	2 : 3,165,742	3,212,092	3,169,246
3,197,762	363 : 3,185,979	3,222,674	3,181,145	3,222,674	2 : 3,167,768	3,220,005	3,173,145
3,197,763	364 : 3,199,100	3,222,674	3,181,146	3,222,674	2 : 3,169,244	3,225,500	3,204,243
3,197,764	365 : 3,210,757	3,222,674	3,181,147	3,222,674	2 : 3,170,156	3,226,719	3,205,501
3,199,099	366 : 3,210,758	3,222,674	3,181,147	3,222,674	2 : 3,171,124	3,165,746	3,164,835
3,200,395	367 : 3,177,483	3,222,674	3,182,311	3,222,674	2 : 3,172,105	3,175,217	3,212,095
3,201,778	368 : 3,183,503	3,222,674	3,182,312	3,222,674	2 : 3,185,985	3,181,160	3,226,722
3,201,779	369 : 3,187,326	3,222,674	3,182,313	3,222,674	2 : 3,188,638	3,209,360	3,209,360
3,201,780	370 : 3,197,766	3,222,674	3,182,316	3,222,674	2 : 3,199,107	3,196,439	3,212,096
3,201,781	371 : 3,200,396	3,222,674	3,182,317	3,222,674	2 : 3,208,066	3,213,453	3,216,018
3,201,782	372 : 3,201,784	3,222,674	3,182,318	3,222,674	2 : 3,214,758	3,217,326	3,224,006
3,201,783	373 : 3,201,785	3,222,674	3,182,319	3,222,674	2 : 3,216,014	3,217,327	3,176,301
3,202,981	374 : 3,202,982	3,222,674	3,182,320	3,222,674	2 : 3,167,769	3,218,642	3,221,331
3,202,982	375 : 3,202,983	3,222,674	3,182,321	3,222,674	2 : 3,169,245	3,164,833	3,171,129
3,202,983	376 : 3,202,984	3,222,674	3,182,322	3,222,674	2 : 3,171,125	3,167,773	3,173,146
3,204,235	377 : 3,202,985	3,222,674	3,182,323	3,222,674	2 : 3,181,158	3,206,753	3,177,491
3,205,489	378 : 3,202,986	3,222,674	3,182,324	3,222,674	2 : 3,184,742	3,206,754	3,214,761
3,205,490	379 : 3,202,987	3,222,674	3,182,325	3,222,674	2 : 3,185,986	3,184,744	3,192,528
3,205,491	380 : 3,202,988	3,222,674	3,182,326	3,222,674	2 : 3,187,331	3,167,774	3,165,748
3,205,492	381 : 3,202,989	3,222,674	3,182,327	3,222,674	2 : 3,178,710	3,179,940	3,179,940
3,206,738	382 : 3,202,990	3,222,674	3,182,328	3,222,674	2 : 3,204,239	3,183,508	3,183,508
3,206,739	383 : 3,202,991	3,222,674	3,182,329	3,222,674	2 : 3,206,749	3,192,527	3,181,161
3,206,740	384 : 3,202,992	3,222,674	3,182,330	3,222,674	2 : 3,213,453	3,217,325	3,193,831
3,206,741	385 : 3,202,993	3,222,674	3,182,331	3,222,674	2 : 3,220,004	3,220,004	3,209,362
3,206,742	386 : 3,202,994	3,222,674	3,182,332	3,222,674	2 : 3,222,675	3,181,162	3,210,767
3,206,743	387 : 3,202,995	3,222,674	3,182,333	3,222,674	2 : 3,224,000	3,183,509	3,210,768
3,206,744	388 : 3,202,996	3,222,674	3,182,334	3,222,674	2 : 3,224,001	3,196,440	3,221,332
3,206,745	389 : 3,202,997	3,222,674	3,182,335	3,222,674	2 : 3,224,002	3,168,738	3,196,443
3,206,746	390 : 3,202,998	3,222,674	3,182,336	3,222,674	2 : 3,165,743	3,185,992	3,175,219
3,206,747	391 : 3,202,999	3,222,674	3,182,337	3,222,674	2 : 3,166,748	3,181,163	3,167,775
3,206,748	392 : 3,203,000	3,222,674	3,182,338	3,222,674	2 : 3,166,749	3,182,329	3,213,457
3,206,749	393 : 3,203,001	3,222,674	3,182,339	3,222,674	2 : 3,167,770	3,173,141	3,192,528
3,206,750	394 : 3,203,002	3,222,674	3,182,340	3,222,674	2 : 3,170,158	3,166,750	3,202,997
3,206,751	395 : 3,203,003	3,222,674	3,182,341	3,222,674	2 : 3,174,153	3,184,745	3,218,645
3,206,752	396 : 3,203,004	3,222,674	3,182,342	3,222,674	2 : 3,175,216	3,205,498	3,218,646
3,206,753	397 : 3,203,005	3,222,674	3,182,343	3,222,674	2 : 3,176,297	3,208,068	3,202,998
3,206,754	398 : 3,203,006	3,222,674	3,182,344	3,222,674	2 : 3,177,488	3,171,128	3,196,444
3,206,755	399 : 3,203,007	3,222,674	3,182,345	3,222,674	2 : 3,177,489	3,172,110	3,178,713
3,206,756	400 : 3,203,008	3,222,674	3,182,346	3,222,674	2 : 3,179,937	3,193,829	3,184,747
3,206,757	401 : 3,203,009	3,222,674	3,182,347	3,222,674	2 : 3,179,938	3,210,764	3,217,328
3,206,758	402 : 3,203,010	3,222,674	3,182,348	3,222,674	2 : 3,182,324	3,220,006	3,182,330
3,206,759	403 : 3,203,011	3,222,674	3,182,349	3,222,674	2 : 3,182,325	3,226,720	3,192,529
3,206,760	404 : 3,203,012	3,222,674	3,182,350	3,222,674	2 : 3,182,326	3,226,721	3,226,723
3,206,761	405 : 3,203,013	3,222,674	3,182,351	3,222,674	2 : 3,184,743	3,189,906	3,208,071
3,206,762	406 : 3,203,014	3,222,674	3,182,352	3,222,674	2 : 3,188,639	3,208,069	3,226,724
3,206,763	407 : 3,203,015	3,222,674	3,182,353	3,222,674	2 : 3,188,640	3,208,070	3,192,530
3,206,764	408 : 3,203,016	3,222,674	3,182,354	3,222,674	2 : 3,189,901	3,188,641	3,222,677
3,206,765	409 : 3,203,017	3,222,674	3,182,355	3,222,674	2 : 3,192,525	3,199,108	3,167,776
3,206,766	410 : 3,203,018	3,222,674	3,182,356	3,222,674	2 : 3,193,828	3,183,510	3,175,220
3,206,767	411 : 3,203,019	3,222,674	3,182,357	3,222,674	2 : 3,196,438	3,216,016	3,176,302
3,206,768	412 : 3,203,020	3,222,674	3,182,358	3,222,674	2 : 3,200,401	3,221,330	3,195,138
3,206,769	413 : 3,203,021	3,222,674	3,182,359	3,222,674	2 : 3,202,990	3,210,765	3,221,333
3,206,770	414 : 3,203,022	3,222,674	3,182,360	3,222,674	2 : 3,202,991	3,216,298	3,213,458
3,206,771	415 : 3,203,023	3,222,674	3,182,361	3,222,674	2 : 3,202,992	3,179,941	3,218,648
3,206,772	416 : 3,203,024	3,222,674	3,182,362	3,222,674	2 : 3,204,240	3,212,093	3,192,531
3,206,773	417 : 3,203,025	3,222,674	3,182,363	3,222,674	2 : 3,208,067	3,172,111	3,208,072
3,206,774	418 : 3,203,026	3,222,674	3,182,364	3,222,674	2 : 3,209,355	3,205,499	3,188,649
3,206,775	419 : 3,203,027	3,222,674	3,182,365	3,222,674	2 : 3,210,762	3,225,351	3,165,749
3,206,776	420 : 3,203,028	3,222,674	3,182,366	3,222,674	2 : 3,172,106	3,202,995	3,165,750
3,206,777	421 : 3,203,029	3,222,674	3,182,367	3,222,674	2 : 3,178,712	3,202,996	3,185,993
3,206,778	422 : 3,203,030	3,222,674	3,182,368	3,222,674	2 : 3,189,902	3,184,746	3,204,244
3,206,779	423 : 3,203,031	3,222,674	3,182,369	3,222,674	2 : 3,178,711	3,210,766	3,165,751
3,206,780	424 : 3,203,032	3,222,674	3,182,370	3,222,674	2 : 3,174,151	3,176,299	3,176,303
3,206,781	425 : 3,203,033	3,222,674	3,182,371	3,222,674	2 : 3,201,792	3,209,358	3,224,007
3,206,782	426 : 3,203,034	3,222,674	3,182,372	3,222,674	2 : 3,189,903	3,226,725	
3,206,783	427 : 3,203,035	3,222,674	3,182,373	3,222,674	2 : 3,202,993	3,166,751	Class 346
3,206,784	428 : 3,203,036	3,222,674	3,182,374	3,222,674	2 : 3,206,751	3,172,109	1 : 3,175,221
3,206,785	429 : 3,203,037	3,222,674	3,182,375	3,222,674	2 : 3,206,752	3,212,094	3,179,944
3,206,786	430 : 3,203,038	3,222,674	3,182,376	3,222,674	2 : 3,209,356	3,189,907	3,181,164
3,206,787	431 : 3,203,039	3,222,674	3,182,377	3,222,674	2 : 3,214,759	3,214,760	3,182,331
3,206,788	432 : 3,203,040	3,222,674	3,182,378	3,222,674	2 : 3,165,744	3,173,142	3,185,994
3,206,789	433 : 3,203,041	3,222,674	3,182,379	3,222,674	2 : 3,172,107	3,173,143	3,185,995
3,206,790	434 : 3,203,042	3,222,674	3,182,380	3,222,674	2 : 3,173,140	3,196,441	3,193,832
3,206,791	435 : 3,203,043	3,222,674	3,182,381	3,222,674	2 : 3,181,159	3,213,454	3,196,445
3,206,792	436 : 3,203,044	3,222,674	3,182,382	3,222,674	2 : 3,183,507	3,213,455	3,206,755
3,206,793	437 : 3,203,045	3,222,674	3,182,383	3,222,674	2 : 3,185,988	3,226,721	3,208,073
3,206,794	438 : 3,203,046	3,222,674	3,182,384	3,222,674	2 : 3,191,175	3,179,942	3,221,331
3,206,795	439 : 3,203,047	3,222,674	3,182,385	3,222,674	2 : 3,195,132	3,195,137	3,222,678
3,206,796	440 : 3,203,048	3,222,674	3,182,386	3,222,674	2 : 3,199,134	3,205,500	3,225,352
3,206,797	441 : 3,203,049						

1965

CLASSIFICATION OF DESIGNS

Class D1	13 : 201,950	5 : 202,692	2 : 201,666	8 : 201,869	1 : 202,258	3 : 200,900
2 : 201,657	202,024	202,693	201,667	201,953	202,259	200,901
3 : 200,146	202,097	202,872	201,668	201,954	202,260	200,955
201,490	202,539		201,745	201,955	202,261	200,956
202,408	203,152	Class D5	201,746	202,173	202,333	201,011
202,759	203,153	2 : 199,957	201,747	202,492	202,334	201,075
202,973	203,252	4 : 200,191	201,790	202,695	202,414	201,076
11 : 202,865	203,329	202,977	201,791	202,770	202,415	201,126
12 : 200,045	201,658	4 : 200,393	201,792	203,028	202,545	201,127
200,147	201,787	202,541	201,866	203,029	202,546	201,176
200,229	202,975	202,978	201,867	203,030	202,547	201,177
200,288	203,154	202,102	201,868	203,031	202,614	201,274
200,952	201,611	5 : 200,759	202,026	9 : 201,870	202,615	201,275
201,271	201,659	202,169	202,027	202,544	202,696	201,354
201,946	201,660	201,348	202,170	203,156	202,697	201,546
202,164	202,098	202,168	202,171	10 : 200,954	202,698	201,547
202,325	202,976	Class D6	202,257	11 : 202,099	202,771	201,548
202,326	203,025	2 : 200,192	202,463	880 : 200,097	202,878	201,675
202,461	25 : 202,869	202,610	202,542	Class D12	202,879	201,749
202,760	26 : 200,231	202,611	202,542	2 : 200,298	202,880	202,178
202,761	201,539	202,612	202,610	200,398	202,980	202,179
202,866	201,861	202,613	202,611	200,464	202,981	202,180
202,974	202,165	Class D7	202,694	200,626	202,982	202,336
203,248	202,166	5 : 200,091	202,767	201,010	203,033	202,337
203,249	202,256	201,002	202,768	203,034	203,034	202,416
203,328	202,540	201,172	202,769	203,035	203,036	202,493
Class D2	Class D4	201,664	202,873	203,036	203,104	202,494
3 : 199,955	2 : 200,046	201,863	202,874	203,105	203,104	202,616
200,148	200,089	201,864	202,875	203,157	203,105	202,617
200,149	200,089	201,865	202,875	203,158	203,158	202,882
200,230	200,289	201,865	202,979	203,333	203,333	202,883
200,566	200,845	201,952	203,026	203,334	203,334	202,884
200,755	201,344	203,103	203,155	203,335	203,335	202,885
200,842	201,345	6 : 200,394	203,254	1 : 199,968	203,336	203,106
200,843	201,493	7 : 200,697	203,254	199,969	203,336	203,107
200,844	201,661	200,846	200,295	199,970	200,629	203,108
200,894	202,410	200,897	200,625	199,971	200,630	203,164
200,895	202,411	201,003	201,173	200,048	200,631	203,255
200,996	202,763	201,070	201,241	200,099	200,632	203,256
200,997	202,870	201,615	201,241	200,100	200,633	203,257
201,343	203,330	202,669	201,615	200,233	201,074	203,258
201,491	200,090	1 : 202,609	202,669	200,299	201,352	203,259
201,610	200,189	Class D8	202,876	200,465	201,353	202,101
201,742	200,290	1 : 202,609		200,528	203,337	199,975
201,784	200,291	Class D9	Class D01	200,529	199,972	200,769
201,785	200,392	2 : 199,958	12 : 202,021	200,570	199,973	201,012
201,860	200,392	199,959		200,627	200,153	201,242
201,947	200,460	199,960	Class D10	200,628	200,300	201,496
201,948	200,523	199,961	6 : 200,462	200,700	200,702	201,794
201,949	200,567	200,047	7 : 200,296	200,701	201,545	201,795
202,022	200,896	200,092	201,008	200,763	201,748	202,030
202,023	200,999	200,093	202,172	200,764	202,029	202,181
202,327	201,000	200,094	202,543	200,847	202,335	202,262
202,328	201,001	200,151	202,877	200,898	202,699	202,263
202,462	201,239	200,193	203,027	201,071	202,881	202,772
202,606	201,346	200,194	203,027	201,072	203,037	202,983
202,688	201,540	200,293	203,124	201,073	203,159	203,165
202,689	201,541	200,294	203,125	201,124	203,160	203,166
202,690	201,744	200,295	203,162	201,125	203,161	14 : 200,305
203,150	201,788	200,395	203,162	201,431	203,162	203,039
203,151	201,789	200,524	203,163	201,494	203,163	18 : 202,031
	201,862	200,525	203,338	201,543	203,338	202,417
	201,951	200,526		201,544		25 : 200,572
	202,025	200,568		201,617	Class D14	27 : 201,013
Class D3	202,167	200,569		201,618	3 : 199,974	202,418
4 : 203,100	202,464	200,623		201,671	200,101	202,418
203,250	202,607	200,624		201,672	200,301	200,154
9 : 201,492	202,608	200,698		201,673	200,302	200,197
202,762	202,764	200,699		201,674	200,303	200,306
203,251	202,765	200,760		201,793	200,304	200,307
10 : 202,867	202,766	200,761		201,871	200,399	200,402
202,868	202,871	201,004		201,872	200,400	200,531
203,101	203,331	201,005		201,873	200,401	200,636
11 : 200,756	203,332	201,006		201,874	200,530	200,637
200,998	202,412	201,007		201,875	200,571	201,128
202,329	202,691	201,121		201,956	200,634	201,432
202,409	203,253	201,240		201,957	200,635	201,549
200,150	200,232	201,349		201,958	200,703	201,550
200,757	200,232	201,350		201,959	200,765	201,551
200,758	200,461	201,351		202,028	200,766	201,676
201,426	201,120	201,428		202,100	200,767	201,677
201,743	201,272	201,429		202,174	200,768	202,032
201,786	201,347	201,612		202,175	200,848	202,033
	201,427	201,613		202,176	200,899	202,034
	202,413	201,614		202,177		

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5 :	202,567	15 :	202,637	1 :	202,365	10 :	201,198	29 :	202,063	16 :	202,729	32 :	203,354
	202,628		202,638		202,717		201,454		202,208		202,804		
	202,629		202,639		203,347		201,630		202,472		202,918		Class D49
	202,630		202,797				201,631		202,512		203,061		
	202,631		202,904	Class D41			201,695		202,569		203,291	1 :	200,254
	202,632		202,905				201,696		202,570		203,291		200,246
	202,633		202,906	1 :	199,989		201,759		202,571	20 :	199,998		200,594
	202,634		202,907		200,112		201,760		202,646		200,171		200,728
	202,635		202,992		200,166		201,898		202,722		200,213		201,383
	202,636		203,124		200,167		201,899		202,802		200,341		201,633
	202,714		203,283		200,168		201,900		202,914		200,342		201,827
	202,715		203,284		200,329		202,508		202,915		200,491		202,064
	202,716				200,723		202,509		202,916		200,592		202,374
	202,792	Class D35			200,791		203,055		202,995		200,658		202,809
	202,793				200,918		203,127		203,056		200,727		203,218
	202,794	1 :	199,987		200,967		203,287		203,057		200,871		203,219
	202,795		203,206		201,031		203,288		203,058		201,036	2 :	202,810
	202,796		203,207		201,032		203,287		203,128		201,037	6 :	200,173
	202,903	2 :	200,326		201,088	15 :	200,055		203,213		201,038		201,041
	202,988		200,545		201,143		200,056				201,151		201,701
	202,989		200,653		201,144		200,057	Class D45			201,295		
	202,990		201,029		202,118		200,058		1 :	201,090		Class D50	
	202,991		201,287		202,366		200,059		4 :	200,170		3 :	200,002
	203,052		201,451		202,718		200,060			200,336			200,003
	203,053		201,627		202,801		200,061			200,337			201,987
	203,123		201,976		202,910		200,062			200,338			203,220
	203,202		201,977		203,208		200,063			200,339		5 :	200,255
	203,203		202,056		203,286		200,064			200,657			200,433
	203,204		202,057	Class D42			200,065			200,657			200,659
	203,205	3 :	200,720				200,066			200,921			200,660
	203,279		200,965				200,067			200,971			201,200
	203,280		201,816		1 :	201,503	200,484			201,146			201,634
	203,281		202,058		7 :	200,113	200,485			201,147			203,132
	203,282		202,281			200,114	200,868			201,148		6 :	200,070
	201,974	Class D36				200,169	201,376			201,149			201,096
	201,975					200,245	201,455			201,150			201,097
	200,652					200,246	201,504			201,293			200,492
	202,115	2 :	201,192			200,330	201,505			201,294		7 :	200,873
	200,544		201,193			200,331	201,506			201,458			200,974
	201,372		201,194			200,968	201,507			201,566			201,988
	200,110	8 :	200,111			201,144	201,508			201,697			202,065
	200,163		200,587			201,452	201,509			202,284			
	200,210		201,195			201,453	201,510			202,513			
	200,325		201,196			201,628	201,511			202,723			
	200,421		201,563			201,817	201,512			202,724			
	200,422		202,207			201,894	201,513			202,725			
	200,479		203,285			201,895	201,901			202,917			
	200,480					201,982	202,470			199,996			
	200,586	Class D37				202,060	202,471			200,490			
	200,719					202,282	202,510			200,430			
	200,789	1 :	200,242			202,641	202,720			200,795			
	200,790		200,243			202,719	202,720			201,378			
	200,862		200,327			203,126	202,994			201,821			
	200,863		200,328			202,061	203,210			202,825			
	200,864		200,588			202,642	200,486			202,285			
	200,913		200,865			202,911	202,721			203,370			
	200,914		201,030				200,116			202,726			
	200,915		201,142				201,632			203,063			
	200,916		201,288	Class D44			201,761			203,064			
	200,917		201,289			1 :	201,902			203,216			
	200,964		201,754				201,902			203,297			
	201,028		201,755				202,511			200,872			
	201,141		202,059				202,512			200,972			
	201,189		202,364				202,645			201,039			
	201,190		202,640				202,913			201,040			
	201,191		202,798				203,211			201,461			
	201,252		202,799				203,212			201,763			
	201,284		202,800				203,289			202,121			
	201,285		202,908				200,428			202,649			
	201,286		202,909				201,819			203,292			
	201,373		202,993				201,757			203,348			
	201,374	Class D38					201,758			203,349			
	201,450						201,818			202,123			
	201,561						201,896			202,287			
	201,562	1 :	199,988				201,897			199,999			
	201,625		200,164				201,983			200,001			
	201,626						202,062			200,118			
	201,690	Class D39					202,267			200,725			
	201,691						202,506			200,214			
	201,692						202,912			200,343			
	201,753						203,209			200,344			
	201,813						200,969			200,593			
	201,814						200,792			200,973			
	201,815						202,119			201,095			
	201,892						202,368			201,382			
	201,893						202,369			202,209			
	202,051						202,469			202,647			
	202,052						202,507			203,214			
	202,053						202,568			203,290			
	202,054						202,643			203,590			
	202,055						202,644			201,826			
	202,116						203,054			201,909			
	202,203						199,991			202,212			
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	202,205						199,993			202,373			
	202,206						200,054			202,440			
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	202,281						200,248			203,065			
	202,361						200,249			203,217			
	202,362						200,250			203,293			
	202,363						200,333			203,294			
	202,434						200,482			203,350			
	202,435						200,483			203,351			
	202,436						200,547			200,431			
	202,505						200,654			200,432			
							200,793			201,297			
							200,867			203,352			
							201,197			203,353			

Class D52 - Con.		12 :	200.800	1 :	201.392	1 :	201.920	6 :	201.314	12.6 :	202.385	26 :	200.607
6 :	200.664		200.801		201.465		201.921		201.395	.6 :	202.447		200.608
	200.730		200.874		201.522		202.071		201.470	.6 :	203.230		200.609
	200.797		200.927		201.523		202.129		201.581	.6 :	203.231		200.610
	200.798		200.928		201.576		202.130		201.582	.7 :	200.016		200.673
	200.976		201.046		201.577		202.218		201.583	.7 :	200.017		200.674
	201.100		201.202		201.711		202.380		201.584	.7 :	200.446		200.675
	201.201		201.301		201.712		202.444		201.585	.7 :	200.670		200.676
	201.255		201.572		201.770		202.478		201.643	.7 :	201.399		200.818
	201.300		201.573		201.916		202.525		201.997	.7 :	201.645		200.819
	201.384		201.574		201.917		202.526		201.998	.7 :	201.844		200.820
	201.385		201.834		201.996		202.658		202.219	.7 :	201.845		200.821
	201.570		201.835		202.068		202.659		202.220	.7 :	201.924		200.883
	201.635		201.995		202.069		202.741		202.221	.7 :	202.448		200.884
	201.707		202.066		202.127		202.742		202.222	.7 :	202.449		200.980
	201.767		202.067		202.128		202.820		202.383	.7 :	202.450		200.981
	201.768		202.213		202.217		203.004		202.445	.7 :	202.935		201.056
	201.769		202.214		202.522		203.136		202.822	.7 :	202.936		201.057
	201.829		202.295		202.577		203.303		202.823	.7 :	203.137		201.104
	201.913		202.574		202.578		203.357		202.933	.7 :	203.305		201.222
	201.990		202.575		202.657		203.358		203.006	.7 :	203.306		201.223
	201.991		202.653		202.818	2 :	201.642		203.074	13 :	200.264		201.224
	202.290		202.816		202.819	7 :	203.005		203.075		200.501		201.262
	202.291		202.926		202.930				203.227		200.502		201.320
	202.292	13 :	203.072		203.300				203.228		200.814		201.401
	202.518		200.009						203.229		200.815		201.402
	202.572		200.010						203.359		200.816		201.403
	202.650		200.176						203.360		200.934		201.471
	202.732		200.434						200.977		201.525		201.472
	202.813		200.435						200.015		201.716		201.473
	202.922		200.597						200.222		201.846		201.473
	203.067		200.729						200.263		201.847		201.647
	203.068		200.732						200.358		201.848		201.648
	203.223		200.875						200.498		201.925		201.649
7 :	200.596		201.203						200.499		202.001		201.650
	200.925		201.302						200.603		202.132		201.651
	200.926		201.520						200.978		202.451		201.652
	201.708		201.521						201.220		202.528		201.717
	201.914		201.575						201.221		202.580		201.718
	202.293		201.641						201.259		202.580		201.849
	202.441		201.709						201.260		202.825		202.135
	202.733		201.710						201.261		202.826		202.136
	203.069		201.836						201.315		202.937		202.137
10 :	201.044		201.837						201.396		203.009		202.138
	201.386		201.915						201.586		203.078		202.139
	201.464		202.125						201.587		203.138		202.140
	201.571		202.126						201.588	17 :	200.018		202.226
	201.636		202.215						201.714		200.019		202.227
	201.830		202.216						201.840		200.121		202.228
	201.992		202.377						201.999		200.265		202.302
	202.124		202.474						202.072		200.266		202.303
	202.651		202.475						202.131		200.267		202.304
			202.521						202.223		200.360		202.305
			202.654						202.224		200.361		202.452
Class D54			202.655						202.224		200.503		202.664
1 :	201.387		202.656						202.299		200.671		202.665
	201.637		202.737						202.300		200.672		202.666
	201.638		202.817						202.300		200.672		202.666
	201.831		202.927						202.480		200.738		202.745
	201.993		202.928						202.662		200.817		202.827
	202.294		202.929						202.824		200.882		202.938
	202.376		202.999						203.007		200.935		202.939
	202.519		203.000						203.076		200.979		203.010
	202.520		203.001						203.077		201.053		203.079
	202.573		203.134						200.076		201.054		203.080
	202.734		203.135						200.737		201.055		203.361
	202.923		203.296						200.812		201.319		
	203.070		203.297						201.316		201.400		Class D59
	203.133		203.298						201.397		201.526		2 :
	203.295		203.299						201.589		201.646		201.105
	203.295		203.355						201.841		201.926		202.828
2 :	200.005		203.356						201.842		201.927		202.940
	200.351	14 :	200.072						202.073		201.928		202.941
	200.352		200.802						202.074		202.002		203.011
	200.353		200.876						202.663		202.003	8 :	201.404
	200.731		201.153						202.934		202.133		202.229
	201.045		201.204						203.008		202.134		202.453
	201.639		201.389						203.304		202.225		
	201.994		202.442						200.179	11 :	202.744		Class D61
	202.652		202.738						200.443		203.232		1 :
	202.735		203.142						200.444		200.122		200.025
	203.071	16 :	200.257						202.000	25 :	200.123		200.126
	203.224		202.576						200.000		200.123		200.127
3 :	202.814		202.378						200.933		200.268		200.127
4 :	201.640								201.644		200.362		200.128
	202.998								201.715		200.363		200.129
8 :	202.815								202.301		200.605		200.130
	202.924								202.446		202.386		200.272
9 :	200.217								203.225		200.020	26 :	200.365
	200.218								203.226		200.021		200.366
	200.799								200.262		200.022		200.448
	201.388								200.442		200.023		200.449
	202.925								200.810		200.024		200.504
10 :	201.832								200.811		200.077		200.505
	201.833								200.932		200.124		200.611
11 :	202.736								201.052		200.125		200.739
12 :	200.006								201.213		200.125		200.822
	200.007								201.214		200.181		200.823
	200.008								201.215		200.182		200.936
	200.175								201.216		200.269		200.982
	200.354								201.217		200.270		200.983
									201.218		200.271		200.984
									201.219		200.364		201.058
											200.447		201.059
											200.606		201.106

200,607	1 : 201,158	11 : 202,586	1 : 201,325	9 : 200,452	9 : 202,155	25 : 202,851	2 : 203,237
200,608	201,225	202,587	201,407	200,453	202,396	203,090	203,312
200,609	201,321	202,670	201,408	200,748	202,485	203,372	203,313
200,610	201,405	203,012	201,409	201,411	202,676	200,833	203,376
200,673	201,474	203,140	201,530	201,596	202,677	202,317	200,035
200,674	201,475	203,141	201,654	201,732	202,847		200,838
200,675	201,527	203,307	201,725	202,315	203,017	Class D82	201,419
200,676	201,528	203,308	201,772	202,951	203,235	2 : 201,066	201,537
200,818	201,590	200,078	201,773	10 : 202,673	200,617	202,679	201,943
200,819	201,719	200,079	201,774	12 : 202,594	200,830	202,852	202,159
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200,821	201,771	201,723	201,851	17 : 200,509	201,164	Class D83	203,019
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200,981	202,141	1 : 201,529	202,150	200,513	11 : 200,033	200,138	8 : 201,338
201,056	202,142	202,145	202,151	200,514	200,081	200,225	201,339
201,057	202,143	202,146	202,152	200,560	200,225	200,226	202,320
201,104	202,230	202,147	202,237	201,063	200,279	200,375	200,086
201,222	202,231	202,483	202,311	201,231	200,831	200,376	200,139
201,223	202,306	202,834	202,312	201,326	200,987	200,378	200,140
201,224	202,307	202,835	202,391	201,412	201,481	200,379	200,284
201,262	202,308	202,836	202,454	201,734	201,534	200,380	200,385
201,320	202,581	202,837	202,455	201,852	201,535	200,381	200,457
201,401	202,582	202,838	202,456	202,153	201,856	200,563	200,519
201,402	202,583	202,839	202,457	202,395	202,081	200,752	200,520
201,403	202,667	Class D66	202,671	202,674	202,458	200,834	200,521
201,471	202,668	1 : 201,226	202,748	202,843	202,531	200,835	200,684
201,472	202,669	201,477	202,749	202,952	202,532	200,836	200,685
201,473	202,746	201,478	202,839	203,014	202,849	200,892	200,839
201,647	202,829	202,077	202,840	203,234	202,956	200,988	201,168
201,648	202,830	202,310	202,841	21 : 200,616	203,236	201,067	201,420
201,649	202,831	202,837	202,946	201,479	201,853	201,166	201,485
201,650	202,832	Class D67	202,947	201,853	203,367	201,167	201,599
201,651	202,833	2 : 201,591	202,948	Class D76	Class D81	201,267	201,600
201,652	202,834	201,592	203,013	1 : 201,162	1 : 200,377	201,335	201,656
201,717	202,835	200,027	203,085	Class D77	4 : 200,749	201,598	201,857
201,718	202,836	200,028	203,363	1 : 200,561	200,832	201,737	201,944
201,849	202,837	200,029	203,364	200,829	200,889	201,780	202,015
202,135	202,838	200,080	203,365	201,327	200,890	201,939	202,016
202,136	202,839	200,133	Class D72	201,413	200,891	201,940	202,401
202,137	202,840	200,558	1 : 200,615	202,844	201,233	202,013	202,487
202,138	202,841	200,612	200,827	202,845	203,368	202,082	202,535
202,139	202,842	200,679	200,888	202,953	203,369	202,083	202,536
202,140	202,843	201,160	201,227	203,015	201,266	202,084	202,600
202,226	202,844	201,161	201,410	Class D78	7 : 201,482	202,085	202,858
202,227	202,845	201,529	201,531	1 : 200,031	201,483	202,318	202,967
202,228	202,846	202,747	201,593	200,454	201,536	202,319	203,095
202,302	202,847	202,838	201,655	200,682	202,957	202,399	203,144
202,303	202,848	203,082	202,005	Class D80	10 : 200,082	202,486	203,314
202,304	202,849	203,083	202,313	2 : 201,854	200,083	202,534	Class D87
202,305	202,850	203,084	202,592	202,595	200,084	202,596	2 : 201,739
202,306	202,851	203,085	202,672	202,778	200,137	202,597	201,740
202,307	202,852	203,086	202,842	201,855	200,280	202,598	202,242
202,308	202,853	Class D70	Class D73	201,936	200,515	202,599	202,243
202,309	202,854	1 : 200,030	1 : 201,110	202,240	200,516	202,680	202,244
202,310	202,855	201,107	201,228	202,316	200,517	202,681	202,245
202,311	202,856	201,323	201,229	202,484	200,683	202,853	202,246
202,312	202,857	201,406	201,229	202,530	200,750	202,854	202,247
202,313	202,858	202,588	201,594	202,675	201,165	202,855	202,248
202,314	202,859	202,589	201,594	202,846	201,234	202,962	202,249
202,315	202,860	202,590	201,595	202,954	201,415	202,963	202,250
202,316	202,861	202,591	201,726	202,955	201,416	203,018	202,251
202,317	202,862	202,592	201,776	202,956	201,736	203,019	202,252
202,318	202,863	202,593	201,777	202,957	201,937	203,020	202,253
202,319	202,864	202,594	201,778	202,958	201,937	203,021	202,254
202,320	202,865	202,595	201,779	202,959	202,156	203,022	202,255
202,321	202,866	202,596	201,780	202,960	202,157	203,023	202,256
202,322	202,867	202,597	201,781	202,961	202,397	203,024	202,257
202,323	202,868	202,598	201,782	202,962	202,533	203,025	202,258
202,324	202,869	202,599	201,783	202,963	202,678	203,026	202,259
202,325	202,870	202,600	201,784	202,964	202,751	203,027	202,260
202,326	202,871	202,601	201,785	202,965	202,752	203,028	202,261
202,327	202,872	202,602	201,786	202,966	202,753	203,029	202,262
202,328	202,873	202,603	201,787	202,967	202,754	203,030	202,263
202,329	202,874	202,604	201,788	202,968	202,755	203,031	202,264
202,330	202,875	202,605	201,789	202,969	202,756	203,032	202,265
202,331	202,876	202,606	201,790	202,970	202,757	203,033	202,266
202,332	202,877	202,607	201,791	202,971	202,758	203,034	202,267
202,333	202,878	202,608	201,792	202,972	202,759	203,035	202,268
202,334	202,879	202,609	201,793	202,973	202,760	203,036	202,269
202,335	202,880	202,610	201,794	202,974	202,761	203,037	202,270
202,336	202,881	202,611	201,795	202,975	202,762	203,038	202,271
202,337	202,882	202,612	201,796	202,976	202,763	203,039	202,272
202,338	202,883	202,613	201,797	202,977	202,764	203,040	202,273
202,339	202,884	202,614	201,798	202,978	202,765	203,041	202,274
202,340	202,885	202,615	201,799	202,979	202,766	203,042	202,275
202,341	202,886	202,616	201,800	202,980	202,767	203,043	202,276
202,342	202,887	202,617	201,801	202,981	202,768	203,044	202,277
202,343	202,888	202,618	201,802	202,982	202,769	203,045	202,278
202,344	202,889	202,619	201,803	202,983	202,770	203,046	202,279
202,345	202,890	202,620	201,804	202,984	202,771	203,047	202,280
202,346	202,891	202,621	201,805	202,985	202,772	203,048	202,281
202,347	202,892	202,622	201,806	202,986	202,773	203,049	202,282
202,348	202,893	202,623	201,807	202,987	202,774	203,050	202,283
202,349	202,894	202,624	201,808	202,988	202,775	203,051	202,284
202,350	202,895	202,625	201,809	202,989	202,776	203,052	202,285
202,351	202,896	202,626	201,810	202,990	202,777	203,053	202,286
202,352	202,897	202,627	201,811	202,991	202,778	203,054	202,287
202,353	202,898	202,628	201,812	202,992	202,779	203,055	202,288
202,354	202,899	202,629	201,813	202,993	202,780	203,056	202,289
202,355	202,900	202,630	201,814	202,994	202,781	203,057	202,290
202,356	202,901	202,631	201,815	202,995	202,782	203,058	202,291
202,357	202,902	202,632	201,816	202,996	202,783	203,059	202,292
202,358	202,903	202,633	201,817	202,997	202,784	203,060	202,293
202,359	202,904	202,634	201,818	202,998	202,785	203,061	202,294
202,360	202,905	202,635	201,819	202,999	202,786	203,062	202,295
202,361	202,906	202,636	201,820	203,000	202,787	203,063	202,296
	202,907	202,637	201,821	203,001	202,788	203,064	202,297
	202,908	202,638	201,822	203,002	202,789	203,065	202,298
	202,909	202,639	201,823	203,003	202,790	203,066	202,299
	202,910	202,640	201,824	203,004	202,791	203,067	202,300
	202,911	202,641	201,825	203,005	202,792	203,068	202,301
	202,912	202,642	201,826	203,006	202,793	203,069	202,302
	202,913	202,643	201,827	203,007	202,794	203,070	202,303
	202,914	202,644	201,828	203,008	202,795	203,071	202,304
	202,915	202,645	201,829	203,009	202,796	203,072	202,305
	202,916	202,646	201,830	203,010	202,797	203,073	202,306
	202,917	202,647	201,831	203,011	202,798	203,074	202,307
	202,918	202,648	201,832	203,012	202,799	203,075	202,308
	202,919	202,649	201,833				

Class D87—Con.	Class D89	8 :	20 :	Class D91	3 :	1 :
5 : 200,621 200,945 200,990 200,991 201,115 201,423 201,486 201,487 201,741 201,781 202,017 202,093 202,160 202,250 202,321 202,322 202,403 202,602 202,861 203,022 203,023 203,096 203,145 203,315	1 : 200,285 200,686 201,116 201,169 201,268 201,602 202,488 202,685 202,251 Class D90 1 : 200,286 200,459 201,235 202,489 203,097 3 : 200,144 5 : 201,236 8 : 200,040 200,145 200,753 200,946 200,992 201,068 201,603	11 : 201,237 14 : 200,087 16 : 200,316 200,840 200,947 200,993 200,994 20 : 202,604 200,687 200,688 200,689 200,690 200,691 200,692 200,693 200,694 200,948 201,117 201,118 201,170 201,238	20 : 201,269 201,424 201,488 201,489 201,606 201,607 201,608 201,609 201,782 201,783 201,858 202,094 202,161 202,162 202,252 202,253 202,254 202,404 202,537 202,645 202,862 202,970 203,242 203,317 203,318 203,319 203,320 203,321	Class D91 1 : 200,041 200,287 200,387 200,564 200,893 200,949 200,950 200,951 200,995 201,340 201,425 202,460 202,490 202,538 202,686 202,863 203,322 203,378 3 : 200,042 200,088 200,186 200,187 200,188 200,388 200,389 200,390	3 : 200,522 200,565 200,622 200,754 201,270 201,859 202,095 202,096 202,163 202,323 202,405 202,406 202,407 202,491 202,757 202,864 203,098 203,147 203,148 203,243 203,244 203,245 203,246 203,323 203,324 4 : 202,758	1 : 200,044 201,341 202,971 203,024 2 : 200,695 4 : 203,149 15 : 200,228 201,342 26 : 200,696 200,841 201,069 201,945 202,019 202,020 202,972 203,247 203,325 203,326 203,327
Class D88 2 : 202,603				Class D92 1 : 200,043		Class D93 3 : 202,255 4 : 201,171 201,538 202,324 202,687

1965

CLASSIFICATION OF PLANTS

P.— 1: 2,525 2: 2,488 5: 2,473 2,531 6: 2,573 7: 2,563 9: 2,483 10: 2,484 11: 2,523 2,524 2,530 2,577 14: 2,522 2,553 15: 2,499 16: 2,550 18: 2,565 2,570	P.— 18: 2,578 2,582 19: 2,521 2,579 20: 2,474 2,493 2,500 2,526 2,545 2,546 2,558 2,569 2,574 22: 2,466 2,549 24: 2,542 2,576 26: 2,541	P.— 28: 2,538 2,540 2,557 30: 2,534 2,548 34: 2,486 2,512 36: 2,489 2,527 37: 2,572 38: 2,496 2,539 2,564 2,571 22: 2,466 2,549 39: 2,515 2,543	P.— 41: 2,532 2,580 43: 2,497 2,583 44: 2,528 2,529 46: 2,469 50: 2,487 2,504 51: 2,556 2,566 2,567 2,581 54: 2,514 2,516 2,544 2,551	P.— 55: 2,472 2,495 2,508 56: 2,485 2,490 57: 2,471 2,492 2,504 2,505 2,506 2,507 2,568 68: 2,467 2,583 70: 2,475 2,478	P.— 70: 2,480 2,482 2,535 2,536 71: 2,479 2,481 72: 2,476 2,477 76: 2,555 77: 2,518 2,547 78: 2,498 79: 2,520 80: 2,517 81: 2,552 82: 2,494 2,519	P.— 82: 2,554 84: 2,468 85: 2,465 2,470 2,509 2,559 2,560 2,561 2,562 86: 2,501 87: 2,537 88: 2,502 2,513 89: 2,510 2,511 2,584
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CLASS TITLES ARRANGED IN CLASS NUMBER ORDER

Class	Title	Class	Title
Plants		53	Package Making
1	Nailing, Stapling and Clip Clenching*	54	Harness
2	Apparel	55	Gas Separation
3	Artificial Body Members	56	Harvesters
4	Baths, Closets, Sinks and Spittoons	57	Textiles, Spinning, Twisting and Twining
5	Beds	58	Horology
6	Bee Culture	59	Chain, Staple and Horseshoe Making
7	Compound Tools	60	Power Plants
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	61	Hydraulic and Earth Engineering
9	Boats, Buoys and Aquatic Devices	62	Refrigeration
10	Bolt, Nail, Nut, Rivet and Screw Making	63	Jewelry
11	Books, Making	64	Machine Elements, Shafting and Flexible Shaft Couplings
12	Boot and Shoe Making	65	Glass Manufacturing
13	Electric Furnaces	66	Textiles, Knitting
14	Bridges	67	Illuminating Burners
15	Brushing, Scrubbing and General Cleaning	68	Textiles, Fluid Treating Apparatus
16	Miscellaneous Hardware	69	Leather Manufactures
17	Butchering	70	Locks
18	Plastics	71	Chemistry, Fertilizers
19	Textiles, Fiber Preparation	72	Metal Deforming**
20	Wooden Buildings	73	Measuring and Testing
21	Preserving, Disinfecting and Sterilizing	74	Machine Elements and Mechanisms
22	Metal Founding	75	Metallurgy
23	Chemistry	76	Metal Tools and Implements, Making
24	Buckles, Buttons, Clasps, Etc.	77	Boring and Drilling
25	Plastic Block and Earthenware Apparatus	78	Metal Forging and Welding*
26	Textiles, Cloth Finishing	79	Button Making
27	Undertaking	80	Metal Rolling*
28	Textiles, Manufacturing	81	Tools
29	Metal Working	82	Turning
30	Cutlery	83	Cutting
31	Dairy	84	Music
32	Dentistry	85	Driven, Headed and Screw-Threaded Fastenings
33	Geometrical Instruments	86	Ammunition and Explosive-Charge Making
34	Drying and Gas or Vapor Contact With Solids	87	Textiles, Braiding, Netting and Lace Making
35	Education	88	Optics
36	Boots, Shoes and Leggings	89	Ordnance
37	Excavating	90	Gear Cutting, Milling and Planing
38	Textiles, Ironing or Smoothing	91	Motors, Expansible Chamber Type
39	Gates	92	Expansible Chamber Devices
40	Card, Picture and Sign Exhibiting	93	Paper Manufactures
41	No Class	94	Roads and Pavements
42	Firearms	95	Photography
43	Fishing, Trapping and Vermin Destroying	96	Photographic Chemistry, Processes and Materials
44	Fuel and Igniting Devices	97	No Class
45	No Class	98	Ventilation
46	Amusement Devices, Toys	99	Foods and Beverages
47	Plant Husbandry	100	Presses
48	Gas, Heating and Illuminating	101	Printing
49	No Class	102	Ammunition and Explosive Devices
50	Building Structures*	103	Pumps
51	Abrading	104	Railways
52	Static Structures, e.g., Buildings**	105	Railway Rolling Stock

*Class abolished during 1965
 **Class established during 1965

Class	Title
106	Compositions, Coating or Plastic
107	Bread, Pastry and Confection Making
108	Horizontally Supported Planar Surfaces
109	Safes, Bank Protection and Related Devices
110	Furnaces
111	Planting
112	Sewing
113	Sheet-Metal Ware, Making
114	Ships
115	Marine Propulsion
116	Signals and Indicators
117	Coating: Processes and Miscellaneous Products
118	Coating Apparatus
119	Animal Husbandry
120	Stationery
121	No Class
122	Liquid Heaters and Vaporizers
123	Internal-Combustion Engines
124	Mechanical Guns and Projectors
125	Stone Working
126	Stoves and Furnaces
127	Sugar, Starch and Carbohydrates
128	Surgery
129	Paper Files and Binders
130	Threshing
131	Tobacco
132	Toilet
133	Coin Handling
134	Cleaning and Liquid Contact With Solids
135	Tents, Canopies, Umbrellas and Canes
136	Batteries
137	Fluid Handling
138	Pipes and Tubular Conduits
139	Textiles, Weaving
140	Wireworking
141	Fluent Material Handling, With Receiver or Receiver Coacting Means
142	Wood Turning
143	Wood Sawing
144	Woodworking
145	Woodworking Tools
146	Vegetable and Meat Cutters and Comminutors
147	Coopering
148	Metal Treatment
149	Explosive and Thermic Compositions or Charges
150	Cloth, Leather and Rubber Receptacles
151	Nut and Bolt Locks
152	Resilient Tires and Wheels
153	Metal Bending*
154	No Class
155	No Class
156	Adhesive Bonding and Miscellaneous Chemical Manufacture
157	Wheelwright Machines
158	Liquid and Gaseous Fuel Burners
159	Concentrating Evaporators
160	Closures, Partitions and Panels, Flexible and Portable
161	Stock Material and Miscellaneous Articles
162	Paper Making and Fiber Liberation

*Class abolished during 1965

**Class established during 1965

Class	Title
163	Needle and Pin Making
164	No Class
165	Heat Exchange
166	Wells
167	Medicines, Poisons and Cosmetics
168	Farriery
169	Fire-Extinguishers
170	Motors, Fluid Current
171	Unearthing Plants or Buried Objects
172	Earth Working
173	Tool Driving or Impacting
174	Electricity, Conductors and Insulators
175	Boring or Penetrating the Earth
176	Nuclear Reactions and Systems
177	Weighing Scales
178	Telegraphy
179	Telephony
180	Motor Vehicles
181	Acoustics
182	Fire Escapes, Ladders, Scaffolds
183	No Class
184	Lubrication
185	Motors, Spring, Weight and Animal Powered
186	Store Service
187	Elevators
188	Brakes
189	Metallic Building Structures
190	Baggage
191	Electricity, Transmission to Vehicles
192	Clutches and Power-Stop Control
193	Conveyers, Chutes, Skids, Guides and Ways
194	Check-Controlled Apparatus
195	Chemistry, Fermentation
196	Mineral Oils: Apparatus
197	Typewriting Machines
198	Conveyers, Power-Driven
199	Type Casting
200	Electricity, Circuit Makers and Breakers
201	Distillation: Processes, Thermolytic**
202	Distillation
203	Distillation: Processes, Separatory**
204	Chemistry, Electrical and Wave Energy
205	Metal Drawing*
206	Special Receptacles and Packages
207	Plastic Metal Working*
208	Mineral Oils: Processes and Products
209	Classifying, Separating and Assorting Solids
210	Liquid Purification or Separation
211	Supports, Racks
212	Traversing Hoists
213	Railway Draft Appliances
214	Material or Article Handling
215	Bottles and Jars
216	No Class
217	Wooden Receptacles
218	Button, Eyelet and Rivet Setting*
219	Electric Heating
220	Metallic Receptacles

Class	Title
221	Arti
222	Disp
223	App
224	Pac
225	Sev
226	Adv
227	Elo
228	Me
229	Pap
230	Gas
231	Wh
232	Dep
233	Cer
234	Selo
235	Reg
236	Aut
237	Hea
238	Rai
239	Flu
240	Illu
241	Sol
242	Win
243	Pne
244	Aer
245	Wi
246	Ra
247	No
248	Sup
249	Sta
250	Ra
251	Va
252	Co
253	Mo
254	Pu
255	No
256	Fer
257	No
258	Ra
259	Ag
260	Ch
261	Ga
262	No
263	He
264	Pla
265	No
266	M
267	Sp
268	Cl
269	W
270	Sh
271	Sh
272	Ar
273	Ar
274	Sc
275	Sc
276	Ty
277	Jo
278	La

*Class

**Class

Class	Title	Class	Title
221	Article Dispensing	279	Chucks or Sockets
222	Dispensing	280	Land Vehicles
223	Apparel Apparatus	281	Books, Strips and Leaves
224	Package and Article Carriers	282	Manifolding
225	Severing by Tearing or Breaking	283	Printed Matter
226	Advancing Material of Indeterminate-Length	284	No Class
227	Elongated-Member-Driving Apparatus**	285	Pipe Joints or Couplings
228	Metal Fusion-Bonding Apparatus**	286	No Class
229	Paper Receptacles	287	Rod Joints or Couplings
230	Gas Pumps and Fans	288	No Class
231	Whips and Whip Apparatus	289	Knots and Knot Tying
232	Deposit and Collection Receptacles	290	Prime-Mover Dynamo Plants
233	Centrifugal-Bowl Separators	291	Track Sanders
234	Selective Cutting (e.g., Punching)	292	Closure Fasteners
235	Registers	293	Vehicle Fenders
236	Automatic Temperature and Humidity Regulation	294	Handling, Hand and Hoist-Line Implements
237	Heating Systems	295	Railway Wheels and Axles
238	Railways, Surface Track	296	Land Vehicles, Bodies and Tops
239	Fluid Sprinkling, Spraying and Diffusing	297	Chairs and Seats
240	Illumination	298	Land Vehicles, Dumping
241	Solid Material Comminution or Disintegration	299	Mining or In Situ Disintegration of Hard Materials
242	Winding and Reeling	300	Brush, Broom and Mop Making
243	Pneumatic Dispatch	301	Land Vehicles, Wheels and Axles
244	Aeronautics	302	Conveyers, Fluid Current
245	Wire Fabrics and Structure	303	Fluid-Pressure Brake and Analogous Systems
246	Railway Switches and Signals	304	No Class
247	No Class	305	Wheel Substitutes for Land Vehicles
248	Supports	306	Tool-Handle Fastenings
249	Static Molds**	307	Electrical Transmission or Interconnection Systems
250	Radiant Energy	308	Machine Elements, Bearings and Guides
251	Valves and Valve Actuation	309	No Class
252	Compositions	310	Electrical Generator or Motor Structure
253	Motors, Fluid	311	No Class
254	Pushing and Pulling Implements	312	Supports, Cabinet Structures
255	No Class	313	Electric Lamp and Discharge Devices
256	Fences	314	Electric Lamp and Discharge Devices, Consumable Electrodes
257	No Class	315	Electric Lamp and Discharge Devices, Systems
258	Railway Mail Delivery	316	Electric Lamp and Discharge Devices, Manufacture and Repair
259	Agitating	317	Electricity
260	Chemistry, Carbon Compounds	318	Electricity, Motive Power Systems
261	Gas and Liquid Contact Apparatus	319	No Class
262	No Class	320	Electricity, Battery and Condenser Charging and Discharging
263	Heating	321	Electricity, Conversion Systems
264	Plastic and Non-Metallic Article Shaping or Treating: Processes	322	Electricity, Single Generator Systems
265	No Class	323	Electricity, Voltage Magnitude and Phase Control Systems
266	Metallurgical Apparatus	324	Electricity, Measuring and Testing
267	Spring Devices	325	Modulated Carrier Wave Communication Systems
268	Closure-Operators	326	No Class
269	Work Holders	327	No Class
270	Sheet-Material Associating or Folding	328	Miscellaneous Electron Space Discharge Device Systems
271	Sheet Feeding or Delivering	329	Demodulators and Detectors
272	Amusement and Exercising Devices	330	Amplifiers
273	Amusement Devices, Games	331	Oscillators
274	Sound Recording and Reproducing		
275	Scattering-Unloaders		
276	Type Setting		
277	Joint Packing		
278	Land Vehicles, Animal Draft Appliances		

*Class abolished during 1965

**Class established during 1965

Class	Title	Class	Title
332	Modulators	343	Communications, Radio Wave
333	Wave Transmission Lines and Networks	344	No Class
334	Tuners	345	No Class
335	No Class	346	Recorders
336	Inductor Devices		Designs
337	No Class		Industrial Arts
338	Electrical Resistors		Household, Personal and Fine Arts
339	Electrical Connectors	351	Optics, Eye Examining, Vision Testing and Cor- recting
340	Communications, Electrical	352	Optics, Motion Pictures
341	No Class		
342	No Class		

CLASS TITLES ARRANGED IN ALPHABETICAL ORDER

Class	Title	Class	Title
51	Abrading	218	Button, Eyelet and Rivet Setting*
181	Acoustics	79	Button Making
156	Adhesive Bonding and Miscellaneous Chemical Manufacture	40	Card, Picture and Sign Exhibiting
226	Advancing Material of Indeterminate-Length	233	Centrifugal-Bowl Separators
244	Aeronautics	59	Chain, Staple and Horseshoe Making
259	Agitating	297	Chairs and Seats
86	Ammunition and Explosive-Charge Making	194	Check-Controlled Apparatus
102	Ammunition and Explosive Devices	23	Chemistry
330	Amplifiers	260	Chemistry, Carbon Compounds
272	Amusement and Exercising Devices	204	Chemistry, Electrical and Wave Energy
273	Amusement Devices, Games	195	Chemistry, Fermentation
46	Amusement Devices, Toys	71	Chemistry, Fertilizers
119	Animal Husbandry	279	Chucks or Sockets
2	Apparel	209	Classifying, Separating and Assorting Solids
223	Apparel Apparatus	134	Cleaning and Liquid Contact With Solids
221	Article Dispensing	292	Closure Fasteners
3	Artificial Body Members	268	Closure-Operators
236	Automatic Temperature and Humidity Regulation	160	Closures, Partitions and Panels, Flexible and Port- able
190	Baggage	150	Cloth, Leather and Rubber Receptacles
4	Baths, Closets, Sinks and Spittoons	192	Clutches and Power-Stop Control
136	Batteries	118	Coating Apparatus
5	Beds	117	Coating: Processes and Miscellaneous Products
6	Bee Culture	133	Coin Handling
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers	340	Communications, Electrical
9	Boats, Buoys and Aquatic Devices	343	Communications, Radio Wave
10	Bolt, Nail, Nut, Rivet and Screw Making	252	Compositions
11	Books, Making	106	Compositions, Coating or Plastic
281	Books, Strips and Leaves	7	Compound Tools
12	Boot and Shoe Making	159	Concentrating Evaporators
36	Boots, Shoes and Leggings	193	Conveyers, Chutes, Skids, Guides and Ways
77	Boring and Drilling	302	Conveyers, Fluid Current
175	Boring or Penetrating the Earth	198	Conveyers, Power-Driven
215	Bottles and Jars	147	Coopering
188	Brakes	30	Cutlery
107	Bread, Pastry and Confection Making	83	Cutting
14	Bridges	31	Dairy
300	Brush, Broom and Mop Making	329	Demodulators and Detectors
15	Brushing, Scrubbing and General Cleaning	32	Dentistry
24	Buckles, Buttons, Clasps, Etc.	232	Deposit and Collection Receptacles
50	Building Structures*	222	Dispensing
17	Butchering	202	Distillation
		201	Distillation: Processes, Thermolytic**
		203	Distillation: Processes, Separatory**
		85	Driven, Headed and Screw-Threaded Fastenings

*Class abolished during 1965

**Class established during 1965

Class	Title	Class	Title
34	Drying and Gas or Vapor Contact With Solids	108	Horizontally Supported Planar Surfaces
172	Earth Working	58	Horology
35	Education	61	Hydraulic and Earth Engineering
13	Electric Furnaces	67	Illuminating Burners
219	Electric Heating	240	Illumination
313	Electric Lamp and Discharge Devices	336	Inductor Devices
314	Electric Lamp and Discharge Devices, Consumable Electrodes	123	Internal-Combustion Engines
316	Electric Lamp and Discharge Devices, Manufacture and Repair	63	Jewelry
315	Electric Lamp and Discharge Devices, Systems	277	Joint Packing
339	Electrical Connectors	289	Knots and Knot Tying
310	Electrical Generator or Motor Structure	280	Land Vehicles
338	Electrical Resistors	278	Land Vehicles, Animal Draft Appliances
307	Electrical Transmission or Interconnection Systems	296	Land Vehicles, Bodies and Tops
317	Electricity	298	Land Vehicles, Dumping
320	Electricity, Battery and Condenser Charging and Discharging	301	Land Vehicles, Wheels and Axles
200	Electricity, Circuit Makers and Breakers	69	Leather Manufactures
174	Electricity, Conductors and Insulators	158	Liquid and Gaseous Fuel Burners
321	Electricity, Conversion Systems	122	Liquid Heaters and Vaporizers
324	Electricity, Measuring and Testing	210	Liquid Purification or Separation
318	Electricity, Motive Power Systems	70	Locks
322	Electricity, Single Generator Systems	184	Lubrication
191	Electricity, Transmission to Vehicles	74	Machine Elements and Mechanisms
323	Electricity, Voltage Magnitude and Phase Control Systems	308	Machine Elements, Bearings and Guides
187	Elevators	64	Machine Elements, Shafting and Flexible Shaft Couplings
227	Elongated-Member-Driving Apparatus**	282	Manifolding
37	Excavating	115	Marine Propulsion
92	Expansible Chamber Devices	214	Material or Article Handling
149	Explosive and Thermic Compositions or Charges	73	Measuring and Testing
168	Farriery	124	Mechanical Guns and Projectors
256	Fences	167	Medicines, Poisons and Cosmetics
182	Fire Escapes, Ladders, Scaffolds	153	Metal Bending*
169	Fire-Extinguishers	72	Metal Deforming**
42	Firearms	205	Metal Drawing*
43	Fishing, Trapping and Vermin Destroying	78	Metal Forging and Welding*
141	Fluent Material Handling, With Receiver or Receiver Coacting Means	22	Metal Founding
137	Fluid Handling	228	Metal Fusion-Bonding Apparatus**
303	Fluid-Pressure Brake and Analogous Systems	80	Metal Rolling*
239	Fluid Sprinkling, Spraying and Diffusing	76	Metal Tools and Implements, Making
99	Foods and Beverages	148	Metal Treatment
44	Fuel and Igniting Devices	29	Metal Working
110	Furnaces	189	Metallic Building Structures
261	Gas and Liquid Contact Apparatus	220	Metallic Receptacles
48	Gas, Heating and Illuminating	266	Metallurgical Apparatus
230	Gas Pumps and Fans	75	Metallurgy
55	Gas Separation	196	Mineral Oils: Apparatus
39	Gates	208	Mineral Oils: Processes and Products
90	Gear Cutting, Milling and Planing	299	Mining or In Situ Disintegration of Hard Materials
33	Geometrical Instruments	328	Miscellaneous Electron Space Discharge Device Systems
65	Glass Manufacturing	16	Miscellaneous Hardware
294	Handling, Hand and Hoist-Line Implements	325	Modulated Carrier Wave Communication Systems
54	Harness	332	Modulators
56	Harvesters	180	Motor Vehicles
165	Heat Exchange	91	Motors, Expansible Chamber Type
263	Heating	253	Motors, Fluid
237	Heating Systems	170	Motors, Fluid Current
		185	Motors, Spring, Weight and Animal Powered
		84	Music
		1	Nailing, Stapling and Clip Clenching*

*Class abolished during 1965

**Class established during 1965

Class	Title
163	Needle and Pin Making
176	Nuclear Reactions and Systems
151	Nut and Bolt Locks
88	Optics
351	Optics, Eye Examining, Vision Testing and Correcting
352	Optics, Motion Pictures
89	Ordnance
331	Oscillators
224	Package and Article Carriers
53	Package Making
129	Paper Files and Binders
162	Paper Making and Fiber Liberation
93	Paper Manufactures
229	Paper Receptacles
96	Photographic Chemistry, Processes and Materials
95	Photography
285	Pipe Joints or Couplings
138	Pipes and Tubular Conduits
47	Plant Husbandry
111	Planting
	Plants
25	Plastic Block and Earthenware Apparatus
264	Plastic and Non-Metallic Article Shaping or Treating: Processes
207	Plastic Metal Working*
18	Plastics
243	Pneumatic Dispatch
60	Power Plants
21	Preserving, Disinfecting and Sterilizing
100	Presses
290	Prime-Mover Dynamo Plants
283	Printed Matter
101	Printing
103	Pumps
254	Pushing and Pulling Implements
250	Radiant Energy
213	Railway Draft Appliances
258	Railway Mail Delivery
105	Railway Rolling Stock
246	Railway Switches and Signals
295	Railway Wheels and Axles
104	Railways
238	Railways, Surface Track
346	Recorders
62	Refrigeration
235	Registers
152	Resilient Tires and Wheels
94	Roads and Pavements
287	Rod Joints or Couplings
109	Safes, Bank Protection and Related Devices
275	Scattering-Unloaders
234	Selective Cutting (e.g., Punching)
225	Severing by Tearing or Breaking
112	Sewing
271	Sheet Feeding or Delivering
270	Sheet-Material Associating or Folding
113	Sheet-Metal Ware, Making
114	Ships
116	Signals and Indicators

*Class abolished during 1965

**Class established during 1965

Class	Title
241	Solid Material Comminution or Disintegration
274	Sound Recording and Reproducing
206	Special Receptacles and Packages
267	Spring Devices
249	Static Molds**
52	Static Structures, e.g., Buildings**
120	Stationery
161	Stock Material and Miscellaneous Articles
125	Stone Working
186	Store Service
126	Stoves and Furnaces
127	Sugar, Starch and Carbohydrates
248	Supports
312	Supports, Cabinet Structures
211	Supports, Racks
128	Surgery
178	Telegraphy
179	Telephony
135	Tents, Canopies, Umbrellas and Canes
87	Textiles, Braiding, Netting and Lace Making
26	Textiles, Cloth Finishing
19	Textiles, Fiber Preparation
68	Textiles, Fluid Treating Apparatus
38	Textiles, Ironing or Smoothing
66	Textiles, Knitting
28	Textiles, Manufacturing
57	Textiles, Spinning, Twisting and Twining
139	Textiles, Weaving
130	Threshing
131	Tobacco
132	Toilet
173	Tool Driving or Impacting
306	Tool-Handle Fastenings
81	Tools
291	Track Sanders
212	Traversing Hoists
334	Tuners
82	Turning
199	Type Casting
276	Type Setting
197	Typewriting Machines
27	Undertaking
171	Unearthing Plants or Buried Objects
251	Valves and Valve Actuation
146	Vegetable and Meat Cutters and Comminutors
293	Vehicle Fenders
98	Ventilation
333	Wave Transmission Lines and Networks
177	Weighing Scales
166	Wells
305	Wheel Substitutes for Land Vehicles
157	Wheelwright Machines
231	Whips and Whip Apparatus
242	Winding and Reeling
245	Wire Fabrics and Structure
140	Wireworking
143	Wood Sawing
142	Wood Turning
20	Wooden Buildings
217	Wooden Receptacles

Class	Title
144	Wo
145	Wo
269	Wo

52	Sta
72	Me
201	Di
203	Di
227	El
228	Me
249	Sta

CLASS TITLES ARRANGED IN ALPHABETICAL ORDER

1527

Class

Title

- 144 Woodworking
- 145 Woodworking Tools
- 269 Work Holders

Classes Established During 1965

- 52 Static Structures, e.g., Buildings (7/28)
- 72 Metal Deforming (3/11)
- 201 Distillation: Processes, Thermolytic (12/15)
- 203 Distillation: Processes, Separatory (12/15)
- 227 Elongated-Member-Driving Apparatus (3/11)
- 228 Metal Fusion-Bonding Apparatus (3/11)
- 249 Static Molds (4/28)

Class

Title

Classes Abolished During 1965

- 1 Nailing, Stapling and Clip Clenching (3/11)
- 50 Building Structures (7/28)
- 78 Metal Forging and Welding (3/11)
- 80 Metal Rolling (3/11)
- 153 Metal Bending (3/11)
- 205 Metal Drawing (3/11)
- 207 Plastic Metal Working (3/11)
- 218 Button, Eyelet and Rivet Setting (3/11)

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*Arranged by subject matter.

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 San Marcos, Southwest Texas State College
 Waco, Baylor University

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 Seattle, U. of Washington
 Spokane, Public Library
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Cheyenne, Wyoming State Library
 Laramie, U. of Wyoming

SUM

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SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836-1965

Year	The number of the first patent issued in each calendar year ¹				The number of patents issued in each calendar year ²			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1836	1	(²)			103	6		
1837	110	(²)			426	10		
1838	546	1			514	6		
1839	1,106	7			404	13		
1840	1,465	20			458	10		
1841	1,923	30			490	6		
1842	2,413	36			488	13	1	
1843	2,901	49	1		493	11	14	
1844	3,395	60	15		478	7	12	
1845	3,873	67	27		473	11	17	
1846	4,348	78	44		566	13	59	
1847	4,914	91	103		495	14	60	
1848	5,409	105	163		583	23	46	
1849	5,993	128	209		984	30	49	
1850	6,981	158	258		883	26	83	
1851	7,865	184	341		752	25	90	
1852	8,622	209	431		885	20	109	
1853	9,512	229	540		844	29	86	
1854	10,358	258	626		1,755	28	57	
1855	12,117	286	683		1,881	51	70	
1856	14,009	337	753		2,302	83	107	
1857	16,324	420	860		2,674	97	113	
1858	19,010	517	973		3,455	126	102	
1859	22,477	643	1,075		4,160	231	107	
1860	26,642	874	1,183		4,357	232	183	
1861	31,005	1,106	1,366		3,020	147	142	
1862	34,045	1,253	1,508		3,214	116	195	
1863	37,266	1,369	1,703		3,773	227	176	
1864	41,047	1,596	1,879		4,630	248	139	
1865	45,685	1,844	2,018		6,088	296	221	
1866	51,784	2,140	2,239		8,863	290	294	
1867	60,658	2,430	2,533		12,277	400	325	
1868	72,959	2,830	2,858		12,526	420	445	
1869	85,503	3,250	3,304		12,931	534	506	
1870	98,460	3,784	3,810		12,137	439	737	
1871	110,617	4,223	4,547		11,659	464	903	
1872	122,304	4,687	5,452		12,180	529	884	
1873	134,504	5,216	6,336		11,616	501	747	
1874	146,120	5,717	7,083		12,230	483	886	
1875	158,350	6,200	7,969		13,291	631	915	
1876	171,641	6,831	8,884		14,169	621	802	
1877	185,813	7,452	9,686		12,920	568	699	
1878	198,733	8,020	10,385		12,345	509	590	
1879	211,078	8,529	10,975		12,125	488	591	
1880	223,211	9,017	11,567		12,903	506	514	
1881	236,137	9,523	12,082		15,500	471	565	
1882	251,685	9,994	12,647		18,091	271	858	
1883	269,820	10,265	13,508		21,162	167	1,017	
1884	291,016	10,432	14,528		19,118	116	1,150	
1885	310,163	10,548	15,678		23,285	129	769	
1886	333,494	10,677	16,451		21,767	116	594	
1887	355,291	10,793	17,046		20,403	99	948	
1888	375,720	10,892	17,995		19,551	86	832	
1889	395,305	10,978	18,830		23,324	75	723	

See footnotes at end of table.

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836-1965—Continued

Year	The number of the first patent issued in each calendar year ¹				The number of patents issued in each calendar year ²			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1890.....	418,665	11,053	19,553	-----	25,313	84	886	-----
1891.....	443,987	11,137	20,439	-----	22,312	80	835	-----
1892.....	466,315	11,217	21,275	-----	22,647	81	816	-----
1893.....	488,976	11,298	22,092	-----	22,750	99	899	-----
1894.....	511,744	11,397	22,994	-----	19,855	64	927	-----
1895.....	531,619	11,461	23,922	-----	20,856	59	1,108	-----
1896.....	552,502	11,520	25,037	-----	21,822	61	1,441	-----
1897.....	574,369	11,581	26,482	-----	22,067	65	1,620	-----
1898.....	596,467	11,646	28,113	-----	20,377	60	1,799	-----
1899.....	616,871	11,706	29,916	-----	23,278	92	2,137	-----
1900.....	640,167	11,798	32,055	-----	24,644	81	1,754	-----
1901.....	664,827	11,879	33,813	-----	25,546	81	1,729	-----
1902.....	690,385	11,960	35,547	-----	27,119	110	639	-----
1903.....	717,521	12,070	36,187	-----	31,029	117	536	-----
1904.....	748,567	12,189	36,723	-----	30,258	110	553	-----
1905.....	778,834	12,299	37,280	-----	29,775	129	486	-----
1906.....	808,618	12,428	37,766	-----	31,170	159	620	-----
1907.....	839,799	12,587	38,391	-----	35,859	151	589	-----
1908.....	875,679	12,738	38,980	-----	32,735	168	755	-----
1909.....	908,436	12,906	39,737	-----	36,561	160	679	-----
1910.....	945,010	13,066	40,424	-----	35,141	123	636	-----
1911.....	980,178	13,189	41,063	-----	32,856	157	1,004	-----
1912.....	1,013,095	13,346	42,073	-----	36,198	158	1,341	-----
1913.....	1,049,326	13,504	43,415	-----	33,917	164	1,677	-----
1914.....	1,083,267	13,668	45,098	-----	39,892	190	1,711	-----
1915.....	1,123,212	13,858	46,813	-----	43,118	182	1,538	-----
1916.....	1,166,419	14,040	48,358	-----	43,892	198	1,745	-----
1917.....	1,210,389	14,238	50,117	-----	40,935	179	1,505	-----
1918.....	1,251,458	14,417	51,629	-----	38,452	165	1,206	-----
1919.....	1,290,027	14,582	52,836	-----	36,797	203	1,521	-----
1920.....	1,326,899	14,785	54,359	-----	37,060	233	2,481	-----
1921.....	1,364,063	15,018	56,844	-----	37,798	239	3,265	-----
1922.....	1,401,948	15,257	60,121	-----	38,369	256	1,609	-----
1923.....	1,440,362	15,513	61,748	-----	38,616	226	1,927	-----
1924.....	1,478,996	15,739	63,675	-----	42,574	235	2,670	-----
1925.....	1,521,590	15,974	66,346	-----	46,432	266	2,819	-----
1926.....	1,568,040	16,240	69,170	-----	44,733	275	2,597	-----
1927.....	1,612,700	16,515	71,772	-----	41,717	326	2,387	-----
1928.....	1,654,521	16,841	74,159	-----	42,357	335	3,182	-----
1929.....	1,696,897	17,176	77,347	-----	45,267	374	2,905	-----
1930.....	1,742,181	17,550	80,254	-----	45,226	367	2,710	-----
1931.....	1,787,424	17,917	82,966	1	51,756	395	2,935	5
1932.....	1,839,190	18,312	85,903	6	53,458	393	2,942	46
1933.....	1,892,663	18,705	88,847	52	48,774	333	2,411	33
1934.....	1,941,449	19,038	91,258	85	44,420	371	2,919	32
1935.....	1,985,878	19,409	94,179	117	40,618	395	3,864	45
1936.....	2,026,516	19,804	98,045	162	39,782	422	4,556	49
1937.....	2,066,309	20,226	102,601	211	37,683	384	5,136	55
1938.....	2,104,004	20,610	107,738	266	38,061	349	5,026	41
1939.....	2,142,080	20,959	112,765	307	43,073	352	5,592	45
1940.....	2,185,170	21,311	118,358	352	42,238	372	6,145	85
1941.....	2,227,418	21,683	124,503	437	41,109	309	6,486	62
1942.....	2,268,540	21,992	130,989	499	38,449	250	3,728	65
1943.....	2,307,007	22,242	134,717	564	31,054	173	2,228	47
1944.....	2,338,081	22,415	136,946	611	28,053	170	2,914	38
1945.....	2,366,154	22,585	139,862	649	25,695	121	3,524	17
1946.....	2,391,856	22,706	143,386	666	21,803	121	2,778	56
1947.....	2,413,675	22,827	146,165	722	20,139	130	2,102	52
1948.....	2,433,824	22,957	148,267	774	23,963	111	3,968	44
1949.....	2,457,797	23,068	152,235	818	35,131	118	4,450	93

See footnotes at end of table.

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836-1965—Continued

Year	The number of the first patent issued in each calendar year ¹				The number of patents issued in each calendar year ²			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1950.....	2,492,944	23,186	156,686	911	43,040	129	4,718	89
1951.....	2,536,016	23,315	161,404	1,001	44,326	134	4,163	58
1952.....	2,580,379	23,449	165,568	1,059	43,616	163	2,959	101
1953.....	2,624,046	23,612	168,527	1,160	40,468	151	2,713	78
1954.....	2,664,562	23,763	171,241	1,238	33,809	155	2,536	101
1955.....	2,698,434	23,918	173,777	1,339	30,432	187	2,713	103
1956.....	2,728,913	24,105	176,490	1,442	46,817	158	2,977	101
1957.....	2,775,762	24,263	179,467	1,543	42,744	150	2,362	129
1958.....	2,818,567	24,413	181,829	1,672	48,330	170	2,374	120
1959.....	2,866,973	24,584	184,204	1,792	52,408	177	2,768	101
1960.....	2,919,443	24,761	186,973	1,893	47,170	157	2,543	116
1961.....	2,966,681	24,918	189,516	2,009	48,368	189	2,487	108
1962.....	3,015,103	25,107	192,004	2,117	55,691	202	2,300	91
1963.....	3,070,801	25,309	194,304	2,208	45,686	198	2,695	129
1964.....	3,116,487	25,507	197,269	2,337	47,378	200	2,686	128
1965.....	3,163,865	25,707	199,955	2,465	62,864	246	3,424	120
1966.....	3,226,729	25,953	203,379	2,585				

¹ The patent numbering system began with a patent issued on July 13, 1836 under the Patent Act adopted July 4, 1836. Up to this time, a total of 9,957 patents had been issued.

² The number of patents issued during a year may be fewer than the number derived by subtracting the number of the first patent issued in one year from the number of the first patent issued in the next year. Some numbers in the series may not be used. This results when an application scheduled to be patented and to which a patent number is assigned is withdrawn for some reason at a time when it is too late to reassign that number.

³ Not separately numbered until 1838.

**LIST OF PATENT, DESIGN, PLANT PATENT, AND REISSUE
NUMBERS APPEARING IN THE INDIVIDUAL ISSUES
OF THE OFFICIAL GAZETTE FOR 1965**

Issue of	Vol.	No.	First Number in Issue			
			Patents	Designs	Plant Patents	Reissues
Jan. 5.....	810	1	3, 163, 865	199, 955	None	25, 707
Jan. 12.....		2	3, 164, 839	200, 045	2, 465	25, 710
Jan. 19.....		3	3, 165, 754	200, 089	2, 466	25, 711
Jan. 26.....		4	3, 166, 757	200, 146	None	25, 715
Feb. 2.....	811	1	3, 167, 778	200, 189	2, 468	25, 723
Feb. 9.....		2	3, 168, 744	200, 229	None	25, 724
Feb. 16.....		3	3, 169, 249	200, 288	2, 471	25, 728
Feb. 23.....		4	3, 170, 160	200, 392	2, 483	25, 732
Mar. 2.....	812	1	3, 171, 131	200, 460	None	25, 735
Mar. 9.....		2	3, 172, 117	200, 523	2, 486	25, 739
Mar. 16.....		3	3, 173, 147	200, 566	2, 487	25, 744
Mar. 23.....		4	3, 174, 155	200, 623	2, 489	25, 745
Mar. 30.....		5	3, 175, 225	200, 697	None	None
Apr. 6.....	813	1	3, 176, 314	200, 755	2, 490	25, 751
Apr. 13.....		2	3, 177, 498	200, 842	2, 492	25, 761
Apr. 20.....		3	3, 178, 723	200, 894	2, 493	25, 765
Apr. 27.....		4	3, 179, 953	200, 952	2, 499	25, 767
May 4.....	814	1	3, 181, 175	200, 996	2, 502	25, 772
May 11.....		2	3, 182, 335	201, 070	2, 507	25, 775
May 18.....		3	3, 183, 522	201, 119	2, 513	25, 778
May 25.....		4	3, 184, 756	201, 172	2, 517	None
June 1.....	815	1	3, 186, 004	201, 239	2, 522	25, 785
June 8.....		2	3, 187, 342	201, 271	2, 528	25, 791
June 15.....		3	3, 188, 654	201, 343	2, 535	25, 797
June 22.....		4	3, 189, 917	201, 426	2, 539	25, 803
June 29.....		5	3, 191, 185	201, 490	2, 542	25, 811
July 6.....	816	1	3, 192, 536	201, 539	2, 543	25, 815
July 13.....		2	3, 193, 841	201, 610	2, 544	None
July 20.....		3	3, 195, 147	201, 657	2, 545	25, 820
July 27.....		4	3, 196, 458	201, 742	None	25, 823
Aug. 3.....	817	1	3, 197, 784	201, 784	2, 546	25, 826
Aug. 10.....		2	3, 199, 118	201, 860	2, 547	25, 833
Aug. 17.....		3	3, 200, 413	201, 946	None	25, 840
Aug. 24.....		4	3, 201, 800	202, 021	2, 548	25, 842
Aug. 31.....		5	3, 203, 003	202, 097	2, 549	25, 844
Sept. 7.....	818	1	3, 204, 251	202, 164	None	25, 849
Sept. 14.....		2	3, 205, 508	202, 256	None	25, 856
Sept. 21.....		3	3, 206, 760	202, 325	None	25, 958
Sept. 28.....		4	3, 208, 080	202, 408	2, 552	25, 868
Oct. 5.....	819	1	3, 209, 369	202, 461	None	25, 869
Oct. 12.....		2	3, 210, 773	202, 492	None	25, 875
Oct. 19.....		3	3, 212, 101	202, 539	2, 558	25, 882
Oct. 26.....		4	3, 213, 463	202, 606	2, 565	25, 886
Nov. 2.....	820	1	3, 214, 767	202, 688	2, 566	25, 891
Nov. 9.....		2	3, 216, 023	202, 759	None	25, 895
Nov. 16.....		3	3, 217, 332	202, 865	2, 570	25, 903
Nov. 23.....		4	3, 218, 649	202, 973	2, 576	25, 909
Nov. 30.....		5	3, 220, 014	203, 025	None	25, 917
Dec. 7.....	821	1	3, 221, 339	203, 100	2, 577	25, 923
Dec. 14.....		2	3, 222, 683	203, 150	None	25, 939
Dec. 21.....		3	3, 224, 009	203, 248	2, 580	None
Dec. 28.....		4	3, 225, 356	203, 328	2, 581	None
Last number of 1965.....			3, 226, 728	203, 379	2, 585	25, 953

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